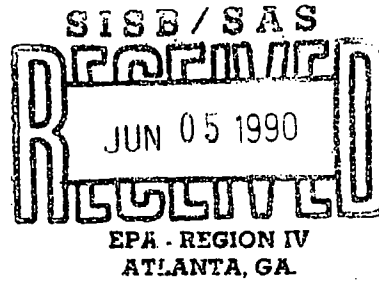


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FINAL
SCREENING SITE INSPECTION, PHASE II
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA
EPA ID #: GAD980803696

Prepared Under
TDD No. F4-8809-07
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Revision 0

FOR THE

WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

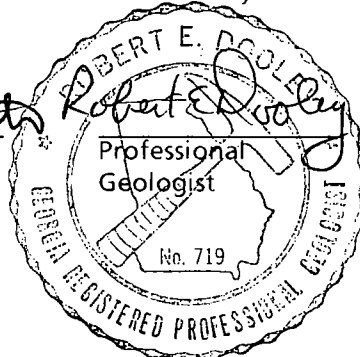
JUNE 1, 1990

NUS CORPORATION
SUPERFUND DIVISION

Prepared By


Geoffrey Carton
Project Manager

Reviewed By



Reviewed By


Bob Donaghue
Assistant Regional
Project Manager

Approved By


Phil Blackwell
Regional Project
Manager



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NOTICE

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EXECUTIVE SUMMARY

Latex Construction is a ship building and repair facility situated on a natural inlet in the southernmost part of the town of Thunderbolt. The inlet was first used as an anchorage for private yachts and shrimp boats starting in the 1930s. In about 1963, the property was purchased, and the inlet was dredged. The dredge spoils were deposited in the southernmost portion of the property, which is now the south yard.

The facility builds and repairs both private and commercial vessels. The processes of greatest concern at the facility are sandblasting and painting. The hulls of newly built and previously painted boats are sandblasted in an open area adjacent to salt marshes. Both the blasting grit and the material being removed pose a potential threat to the environment. Poor housekeeping practices were observed at the facility, as evidenced by stained soils and solvent transfer in an uncurbed area.

The Latex Construction facility is located within the Atlantic Coastal Physiographic Province. Nearly horizontal sedimentary rocks comprise the water-bearing units of concern in the Savannah area. The surficial aquifer in the area is not used for domestic purposes. Sandy deposits of the surficial aquifer rest unconformably upon the Hawthorn Formation. The Hawthorn Formation, which is comprised of sandy silt, feldspathic, phosphatic sand, and a thick section of green silt and clay, acts as a confining layer. The underlying formations of Miocene, Oligocene, and Eocene ages are collectively termed the Floridan aquifer, the aquifer of concern in this area.

Surface water is the pathway of greatest concern. The facility is bordered by both the Wilmington River and Williamson Creek. Extensive salt marshes lie immediately south of the facility. The Wilmington River is subject to heavy commercial and recreational fishing pressures.

The air and onsite pathways are also of concern because there is a population of 1439 within 1 mile. Sandblasting at the facility may continue to release contaminated particles to the air.

Groundwater is of minor concern because the surficial aquifer is not used for potable water. The aquifer of concern in the Savannah area is the Floridan, which is confined by a thick, clay layer.

The field inspection of Latex Construction consisted of the collection of 17 environmental samples of sediment, surface, and subsurface soil. These samples were taken from four potential source areas and along likely migration pathways. Analytical results indicated the presence of a variety of organic

and inorganic contaminants at the facility. Contamination was found in each of the source areas and in both surface and subsurface soil samples. Contamination from the sandblast area also appears to be entering Williamson Creek and the salt marsh along its banks.

Based upon the field inspection and the enclosures, FIT 4 recommends that a Listing Site Inspection, Phase I, be initiated.

1.0 INTRODUCTION

The NUS Corporation Region 4 Field Investigation Team (FIT) was tasked by the U.S. Environmental Protection Agency (EPA), Waste Management Division to conduct a Screening Site Inspection (SSI) Phase II at the Latex Construction site in Thunderbolt, Chatham County, Georgia. The inspection was performed under the authority of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) and Superfund Amendments and Reauthorization Act of 1986 (SARA). The task was performed to satisfy the requirements stated in Technical Directive Document (TDD) number F4-8809-07. The field investigation was conducted the week of September 11, 1989.

1.1 OBJECTIVES

The objectives of this inspection were to determine the nature of contaminants present at the facility and to determine if a release of these substances has occurred or may occur. Further, this inspection sought to determine the possible pathways by which contamination could migrate from the facility and the populations and environments it would potentially affect. Through these objectives, a recommendation was made regarding future activities at the facility.

1.2 SCOPE OF WORK

The objectives were achieved through the completion of a number of specific tasks. These activities were to:

- Obtain and review background materials relevant to HRS scoring of site,
- Evaluate target populations within a 4-mile radius of the facility with regard to groundwater, surface water, air, and onsite exposure pathways,
- Develop a site sketch drawn to scale, and
- Collect 17 environmental samples.

2.0 SITE CHARACTERIZATION

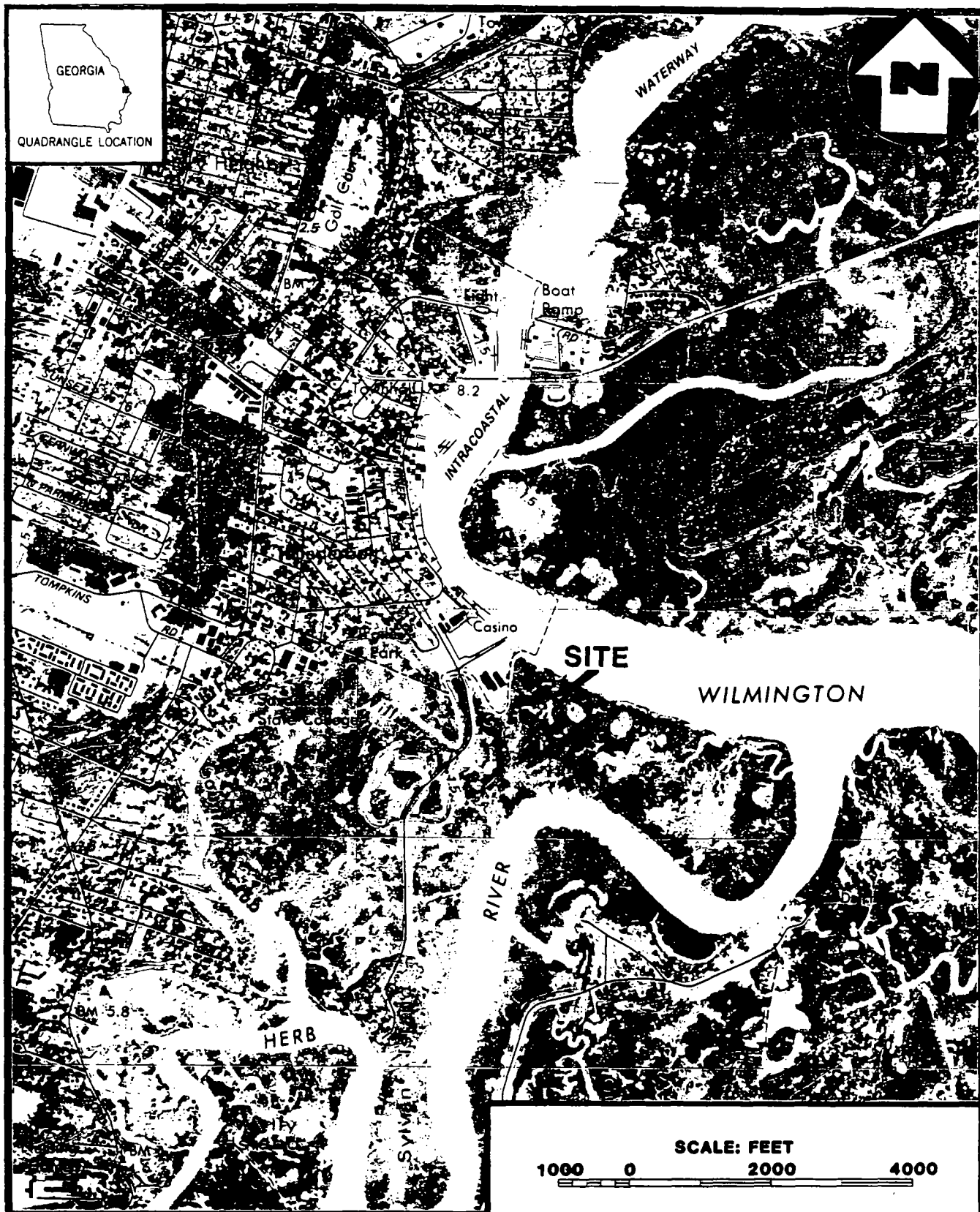
2.1 SITE BACKGROUND AND HISTORY

Latex Construction is a ship building and repair facility located at 2136 River Road in Thunderbolt, Georgia. The site is situated on a natural inlet on the Wilmington River (Figures 1, 2). Thunderbolt Marine, Inc (TMI) owns the property on which the site is located. The site consists of the TMI marina, north yard, south yard, west storage area, and ship basin (Ref. 1, p. 3). This study centers on the south yard because most of the activities involving hazardous materials are conducted there.

Latex Construction repaired and serviced small ships, barges, tugs, etc, and also built pleasure boats from 1963 through 1986 (Refs. 1, p. 3; 2). In 1986 the north and south yards were leased to Lockheed Shipbuilding (Refs. 1, p. 3; 3). The facility is currently leased by Trinity Marine Group. Thunderbolt Shipbuilding and Repair, a division of Trinity Marine, which is in turn a subsidiary of Trinity Industries, Dallas, Texas has a sublease (Refs. 3, 4, 5):

The inlet was first used as anchorage for private yachts and shrimp boats starting in about 1930 (Refs. 1, p. 3; 2). It was common practice for shrimp boats to pump their bilges overboard (Ref. 1, p. 3). The property was purchased by the current owner, Thunderbolt Marine, Inc., in about 1963. The marina and dock were in place at that time (Ref. 1, p. 3). From about 1963 to 1986 the facility was operated by Latex Construction, a subsidiary of TMI (Refs. 1, p. 3; 4). During this time, sea walls were built around the basin, and the basin was dredged. The dredge spoils were used to create the south yard which had been a low-lying marshy area. Pilings were also driven into the south yard to stabilize the dredge materials. The previous use of the basin may have contaminated the spoils used to fill the south yard (Ref. 1, p. 3).

In 1983, a group of citizens known as "Friends of the Wilmington River" accused Latex of discharging heavy metals into Williamson Creek. Sediment samples (FW-1, FW-1', FW-2, FW-2'), taken by the citizens group near outfall pipes from the Latex facility, contained elevated concentrations of copper, lead, and zinc (Figure 3, Table 1) (Refs. 6, 7). Based on their samples, the citizens group attempted to block the approval of a dredging permit needed for the construction of a side-launch facility. In response to this, Latex Construction commissioned an independent study of sediments in the area to be dredged. The study concluded that metal concentrations in the sediments were within the normal ranges for the Savannah River (Table 1) (Refs. 8, 9). However, the background sample does not adequately represent background conditions because the sample was collected below the Highway



BASE MAP IS A PORTION OF THE USGS 7.5 MINUTE QUADRANGLE, SAVANNAH, GA.-S.C., 1978.

**SITE LOCATION MAP
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA**

FIGURE 1



TABLE 1

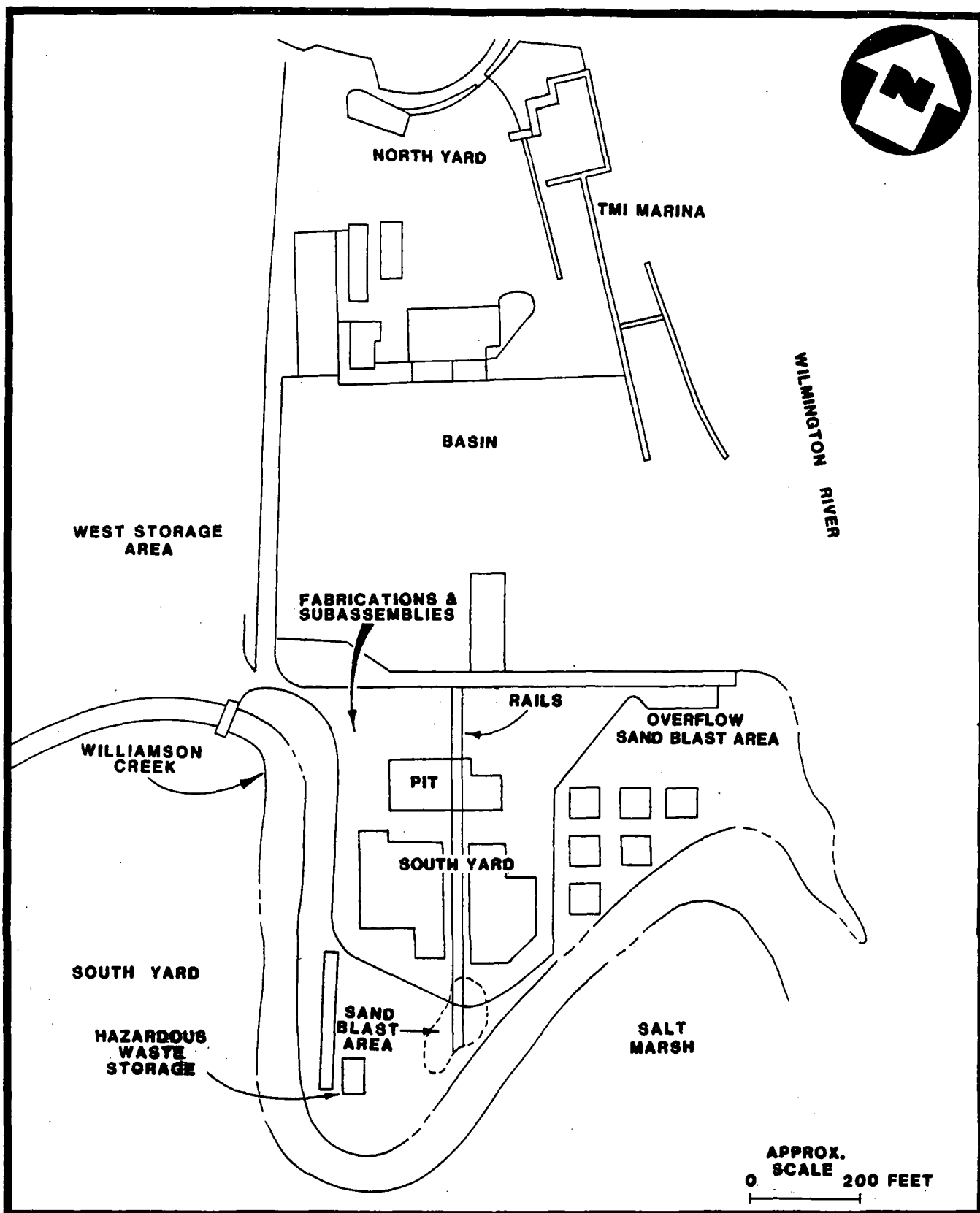
SUMMARY OF INORGANIC ANALYTICAL RESULTS
FROM PREVIOUS STUDIES
SEDIMENT SAMPLES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (mg/kg)	Williamson Creek Near Latex "Discrete Conveyances"				Wilmington River 2.8 Miles Downgradient	Control Sample Country Club Creek	Near Mouth of Williamson Creek	Creek Near Paint Shop	Wilmington River	Under Hwy. 80
	LC-FW-1 2/6/83	LC-FW-1' 2/6/83	LC-FW-2 2/6/83	LC-FW-2' 2/6/83	LC-FW-3' 2/6/83	LC-FW-4' 2/6/83	LC-LC-1 2/24/83	LC-LC-2 2/24/83	LC-LC-3 2/24/83	LC-LC-4 2/24/83
COPPER	68	640	110	180	11	6.6	16	42	31	96
LEAD	-	865	160	240	22	19	29	49	37	77
ZINC	920	2600	310	410	57	35	55	130	100	190

- Material analyzed for but not detected above minimum quantitation limit

FW Study by Friends of the Wilmington River (Refs. 6, 7).

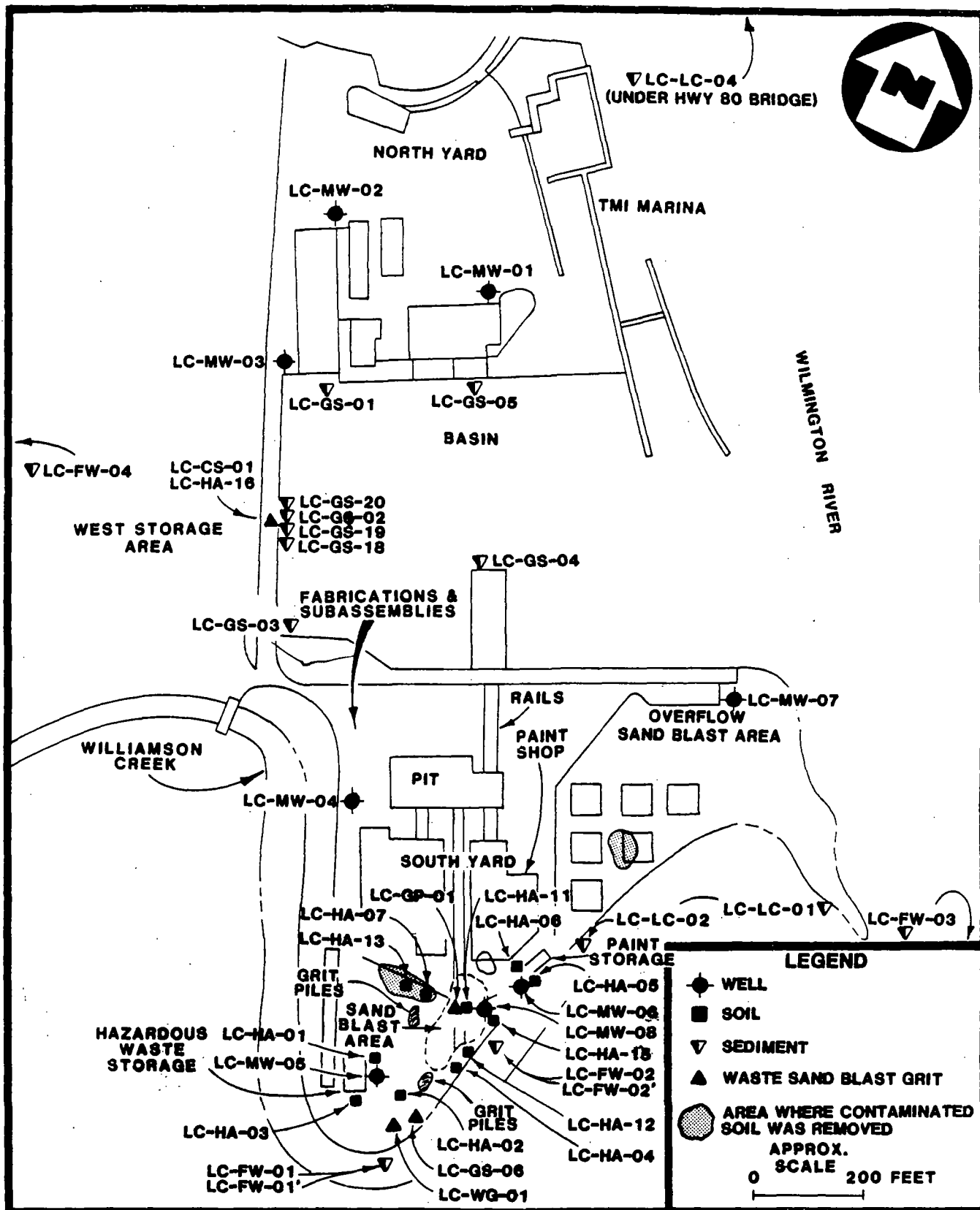
LC Study for Latex Construction by UGA-Marine Extension Service (Ref. 9).



**SITE LAYOUT MAP
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA**

FIGURE 2





**SAMPLE LOCATIONS FROM PREVIOUS STUDIES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA**

FIGURE 3



80 bridge. This location likely receives runoff from the road in addition to sandblasting debris from bridge maintenance. Additional sampling was required prior to approval of the permit by the U.S. Army Corps of Engineers (COE). The construction permit (No. 074 OYN 004452) was granted, but the side-launch facility has not been built (Ref. 10).

In 1988 and 1989, an environmental assessment of the north and south yards was done for Lockheed Shipbuilding by McLauren Environmental Engineering. The assessment included the installation of monitoring wells and sampling of soil, sediment, sandblast grit, and groundwater. The samples were analyzed for a limited number of organic and inorganic compounds. Sediments in the ship basin were sampled. No volatile organic compounds were found (Table 2). Arsenic, copper, lead, mercury, and zinc were found in the sediments at anomalously high concentrations in some of the samples (Table 3) (Ref. 1). Thus, these compounds are likely to be site-related. The arsenic and copper may be from treated wood, such as pilings, used in the area. The other elements may be related to waste grit which was used as fill near sample locations GS-2, GS-18, GS-19, and GS-20 (Figure 3) (Refs. 1, 11).

Surface soil sampling in the south yard revealed three areas where runoff or leaking equipment had caused some contamination. All of the contaminated soil (45 cubic yards) in these locations was removed. Post excavation samples were taken, and no remaining contamination was detected. The excavated soil was disposed of at the Dean Forest Road Sanitary Landfill (Ref. 11, p. 10).

Also, surface soil contaminated with three organic solvents/fuel related compounds was found near the sandblasting area in the south yard. The highest concentration was 1500 ug/kg for total xylenes (Table 4) (Ref. 1).

Eleven heavy metals were found in waste sandblasting grit in concentrations three times the detection limits or greater. The highest concentrations for these are barium (100 mg/kg), chromium (71 mg/kg), cobalt (71 mg/kg), copper (2800 mg/kg), lead (1500 mg/kg), mercury (0.1 mg/kg), molybdenum (60 mg/kg), nickel (440 mg/kg), selenium (0.3 mg/kg), and zinc (2900 mg/kg) (Table 5) (Ref. 1). This waste grit has been used as fill material in at least one location on the property (Ref. 1, p. 16). Organic analysis was done on HA-16 where the grit was used as fill, and xylenes (110 ug/kg) were detected (Table 4) (Ref. 1).

Groundwater was analyzed for organics. The highest concentration found was 6.5 ug/kg of tetrachloroethylene in the well nearest the sandblast area (Table 6) (Ref. 1).

The locations of samples of interest are shown on Figure 3, and the corresponding sample results are summarized in Tables 1 through 6 (Refs. 1, 11).

TABLE 2

SUMMARY OF ORGANIC ANALYTICAL RESULTS
 McLAREN ENVIRONMENTAL ENGINEERING ENVIRONMENTAL ASSESSMENT
 SEDIMENT SAMPLES
 LATEX CONSTRUCTION
 THUNDERBOLT, CHATHAM COUNTY, GEORGIA

Location in Basin PARAMETERS (ug/kg)	NW Corner	W. Central	SW Corner	Syncrolift	N. Central	W. Central		
	LC-GS-1 7/22/88	LC-GS-2 7/25/88	LC-GS-3 7/26/88	LC-GS-4 7/26/88	LC-GS-5 7/26/88	LC-GS-18 12/19/88	LC-GS-19 12/29/88	LC-GS-20 12/29/88
VINYL CHLORIDE	-	NA	-	-	-	NA	NA	NA
1,1-DICHLOROETHYLENE	-	NA	-	-	-	NA	NA	NA
1,1-DICHLOROETHANE	-	NA	-	-	-	NA	NA	NA
1,2 DICHLOROETHANE	-	NA	-	-	-	NA	NA	NA
CHLOROFORM	-	NA	-	-	-	NA	NA	NA
1,1,1-TRICHLOROETHANE	-	NA	-	-	-	NA	NA	NA
CARBON TETRACHLORIDE	-	NA	-	-	-	NA	NA	NA
BROMODICHLOROMETHANE	-	NA	-	-	-	NA	NA	NA
1,2 DICHLOROPROPANE	-	NA	-	-	-	NA	NA	NA
BENZENE	-	NA	-	-	-	NA	NA	NA
TRANS-1,2-DICHLOROETHYLENE	-	NA	-	-	-	NA	NA	NA
BROMOFORM	-	NA	-	-	-	NA	NA	NA
TETRACHLOROETHYLENE	-	NA	-	-	-	NA	NA	NA
TOLUENE	-	NA	-	-	-	NA	NA	NA
CHLOROBENZENE	-	NA	-	-	-	NA	NA	NA
ETHYL BENZENE	-	NA	-	-	-	NA	NA	NA

- Material analyzed for but not detected above minimum quantitation limit

NA Not analyzed

NOTE: Data from References 1, 11

TABLE 2

SUMMARY OF ORGANIC ANALYTICAL RESULTS
 McLAREN ENVIRONMENTAL ENGINEERING ENVIRONMENTAL ASSESSMENT
 SEDIMENT SAMPLES
 LATEX CONSTRUCTION
 THUNDERBOLT, CHATHAM COUNTY, GEORGIA

Location in Basin PARAMETERS (ug/kg)	NW Corner	W. Central	SW Corner	Syncrolift	N. Central	W. Central		
	LC-GS-1 7/22/88	LC-GS-2 7/25/88	LC-GS-3 7/26/88	LC-GS-4 7/26/88	LC-GS-5 7/26/88	LC-GS-18 12/19/88	LC-GS-19 12/29/88	LC-GS-20 12/29/88
TOTAL XYLENES	-	NA	-	-	-	NA	NA	NA
1,2-DICHLOROBENZENE	-	NA	-	-	-	NA	NA	NA
1,3-DICHLOROBENZENE	-	NA	-	-	-	NA	NA	NA
1,4-DICHLOROBENZENE	-	NA	-	-	-	NA	NA	NA
TRICHLOROFLUOROMETHANE	-	NA	-	-	-	NA	NA	NA
TRICHLOROETHYLENE	-	NA	-	-	-	NA	NA	NA
CHLORODIBROMOMETHANE	-	NA	-	-	-	NA	NA	NA

- Material analyzed for but not detected above minimum quantitation limit

NA Not analyzed

NOTE: Data from References 1, 11

TABLE 3

SUMMARY OF INORGANIC ANALYTICAL RESULTS
 McLAREN ENVIRONMENTAL ENGINEERING ENVIRONMENTAL ASSESSMENT
 SEDIMENT SAMPLES
 LATEX CONSTRUCTION
 THUNDERBOLT, CHATHAM COUNTY, GEORGIA

Location in Basin PARAMETERS (mg/kg)	NW Corner	W. Central	SW Corner	Syncrolift	N. Central	W. Central		
	LC-GS-1 7/22/88	LC-GS-2* 7/25/88	LC-GS-3 7/26/88	LC-GS-4 7/26/88	LC-GS-5 7/26/88	LC-GS-18 12/19/88	LC-GS-19 12/29/88	LC-GS-20 12/29/88
ANTIMONY	-	5	-	-	-	6	8	8
ARSENIC	7.5	1	0.9	0.9	1	4	4	3
BARIUM	-	-	-	-	-	-	-	10
BERYLLIUM	0.5	-	-	-	-	-	0.5	0.5
CADMIUM	-	-	-	-	-	-	-	-
CHROMIUM	14	21	14	14	19	10	19	20
COBALT	2	6	2	2	2	20	3	4
COPPER	10	71	7	8	12	20	29	76
LEAD	10	51	10	10	20	20	30	48
MERCURY	-	0.24	-	-	-	0.09	0.03	0.2
NICKEL	5	10	4	4	4	5	8	9
SELENIUM	0.1	-	0.1	0.1	0.1	0.1	0.1	0.2
THALLIUM	20	20	20	20	20	-	-	-
VANADIUM	20	10	10	10	20	8	20	20
ZINC	28	240	21	25	35	38	41	19

- Material analyzed for but not detected above minimum quantitation limit

* Reported in McLaren Environmental Summary Table as GS-2 but data sheets indicate it is GS-1 (Ref. 12).

NOTE: Data from References 1, 11

TABLE 4

SUMMARY OF ORGANIC ANALYTICAL RESULTS
 McLAREN ENVIRONMENTAL ENGINEERING ENVIRONMENTAL ASSESSMENT
 SOIL SAMPLES
 LATEX CONSTRUCTION
 THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (ug/kg)	Hazardous Waste Storage			Sandblast Area			Paint Storage	Paint Shop	Drainage from Shops		Grit Storage		Grit Used as Fill
	LC-HA-1 7/22/88	LC-HA-2 7/23/88	LC-HA-3 7/23/88	LC-HA-4 7/23/88	LC-HA-11 7/23/88	LC-HA-12 7/25/88	LC-HA-5 7/23/88	LC-HA-6 7/27/88	LC-HA-7 7/22/88	LC-HA-13 7/27/88	LC-HA-15 7/27/88	LC-GS-6 7/27/88	LC-HA-16 7/27/88
DEPTH (feet)	3.0-3.2	3.0-3.2	1.8-2.0	0.5-1.0	2.5-3.0	0.5-1.0	0.5-1.0	0.3-0.5	3.0-3.2	0.5-3.0	0.5-1.0	-	1.0-1.3
VINYL CHLORIDE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
1,1-DICHLOROETHYLENE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
1,1-DICHLOROETHANE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
1,2-DICHLOROETHANE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
CHLOROFORM	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
1,1,1-TRICHLOROETHANE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
CARBON TETRACHLORIDE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
BROMODICHLOROMETHANE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
1,2-DICHLOROPROPANE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
TRANS-1,2-DICHLOROETHYLENE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
BROMOFORM	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
TETRACHLOROETHYLENE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	200	-	-	-
TOTAL XYLENES	-	-	-	-	-	-	-	-	-	1500	900	-	110

- Material analyzed for but not detected above minimum quantitation limit

NA Not analyzed

NOTE: Data from Reference 1

TABLE 4

SUMMARY OF ORGANIC ANALYTICAL RESULTS
 McLAREN ENVIRONMENTAL ENGINEERING ENVIRONMENTAL ASSESSMENT
 SOIL SAMPLES
 LATEX CONSTRUCTION
 THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (ug/kg)	Hazardous Waste Storage			Sandblast Area			Paint Storage	Paint Shop	Drainage from Shops		Grit Storage		Grit Used as Fill
	LC-HA-1 7/22/88	LC-HA-2 7/23/88	LC-HA-3 7/23/88	LC-HA-4 7/23/88	LC-HA-11 7/23/88	LC-HA-12 7/25/88	LC-HA-5 7/23/88	LC-HA-6 7/27/88	LC-HA-7 7/22/88	LC-HA-13 7/27/88	LC-HA-15 7/27/88	LC-GS-6 7/27/88	LC-HA-16 7/27/88
TRICHLOROFLUOROMETHANE	NA	-	NA	-	-	20	-	NA	NA	-	-	-	-
TRICHLOROETHYLENE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-
CHLORODIBROMOMETHANE	NA	-	NA	-	-	-	-	NA	NA	-	-	-	-

- Material analyzed for but not detected above minimum quantitation limit

NA Not analyzed

NOTE: Data from Reference 1

TABLE 5

SUMMARY OF INORGANIC ANALYTICAL RESULTS
 McLAREN ENVIRONMENTAL ENGINEERING ENVIRONMENTAL ASSESSMENT
 SANDBLAST GRIT SAMPLES
 LATEX CONSTRUCTION
 THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (mg/kg)	LC-CS-1 8/11/88	LC-WG-1 8/11/88	LC-GP-1 8/11/88
ANTIMONY	6	-	-
ARSENIC	-	-	-
BARIUM	100	80	90
BERYLLIUM	5	0.9	0.9
CADMIUM	0.9	0.7	0.7
CHROMIUM	71	26	36
COBALT	28	6	17
COPPER	2800	730	960
LEAD	1500	230	640
MERCURY	0.1	0.1	0.05
MOLYBDENUM	60	-	20
NICKEL	440	62	76
SELENIUM	0.2	0.2	0.3
SILVER	-	-	-
THALLIUM	-	-	-
VANADIUM	9	7	10
ZINC	2900	2100	2100

- Material analyzed for but not detected above minimum quantitation limit
 NOTE: Data from Reference 1

TABLE 6

SUMMARY OF ORGANIC ANALYTICAL RESULTS
 McLAREN ENVIRONMENTAL ENGINEERING ENVIRONMENTAL ASSESSMENT
 GROUNDWATER SAMPLES
 LATEX CONSTRUCTION
 THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (ug/l)	North Yard			West of Pit	Haz. Waste Storage	NE of Sandblast Area	Overflow Sandblast Area	Sandblast Area
	LC-MW-01 7/28/88	LC-MW-02 7/28/88	LC-MW-03 7/28/88	LC-MW-04 7/28/88	LC-MW-05 7/28/88	LC-MW-06 7/28/88	LC-MW-07 7/28/88	LC-MW-08 7/28/88
ETHYL BENZENE	-	-	-	-	-	-	-	-
TOTAL XYLENES	-	-	-	-	-	-	-	-
1,2-DICHLOROBENZENE	-	-	-	-	-	-	-	-
1,3-DICHLOROBENZENE	-	-	-	-	-	-	-	-
1,4-DICHLOROBENZENE	-	-	-	-	-	-	-	-
TRICHLOROFLUOROMETHANE	-	-	-	-	-	-	-	-
TRICHLOROETHYLENE	-	-	-	1	-	-	-	5
CHLORODIBROMOMETHANE	-	-	-	-	-	-	-	-

- Material analyzed for but not detected above minimum quantitation limit

Note: The above is a complete list of organic compounds analyzed for during this study (Ref. 1).

TABLE 6

SUMMARY OF ORGANIC ANALYTICAL RESULTS
 McLAREN ENVIRONMENTAL ENGINEERING ENVIRONMENTAL ASSESSMENT
 GROUNDWATER SAMPLES
 LATEX CONSTRUCTION
 THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (ug/l)	North Yard			West of Pit	Haz. Waste Storage	NE of Sandblast Area	Overflow Sandblast Area	Sandblast Area
	LC-MW-01 7/28/88	LC-MW-02 7/28/88	LC-MW-03 7/28/88	LC-MW-04 7/28/88	LC-MW-05 7/28/88	LC-MW-06 7/28/88	LC-MW-07 7/28/88	LC-MW-08 7/28/88
VINYL CHLORIDE	-	-	-	-	-	-	-	-
1,1-DICHLOROETHYLENE	-	-	-	-	-	-	-	-
1,1-DICHLOROETHANE	-	-	-	-	-	-	-	-
1,2-DICHLOROETHANE	-	-	-	-	-	-	-	-
CHLOROFORM	-	-	-	-	-	-	-	-
1,1,1-TRICHLOROETHANE	-	-	-	-	-	-	-	-
CARBON TETRACHLORIDE	-	-	-	-	-	-	-	-
BROMODICHLOROMETHANE	-	-	-	-	-	-	-	-
1,2-DICHLOROPROPANE	-	-	-	-	-	-	-	-
BENZENE	-	-	-	-	-	-	-	2
TRANS-1,2-DICHLOROETHYLENE	-	-	-	-	-	-	-	-
BROMOFORM	-	-	-	-	-	-	-	-
TETRACHLOROETHYLENE	0.5	-	-	-	-	-	-	6.5
TOLUENE	-	-	-	-	-	-	-	2
CHLOROBENZENE	-	-	-	-	-	-	-	-

- Material analyzed for but not detected above minimum quantitation limit

Note: The above is a complete list of organic compounds analyzed for during this study (Ref. 1).

The facility is identified by three EPA identification numbers: Latex Construction (GAD980803696) and Lockheed Shipbuilding (GAD984268615 and GAD981223688) (Ref. 13). Lockheed Shipbuilding was granted generator status on October 30, 1986. The notification identified nonhalogenated solvents (F003) as the waste being produced (Refs. 14, 15). The organic contaminants found near the sandblast area can be components of F003 (Refs. 1, 14). Trinity reported that Lockheed Shipbuilding had transferred their EPA ID numbers for air emissions and generator permits to Trinity (Ref. 16). However, the state reported that Lockheed had requested that their generator file be closed (Ref. 15). Trinity stated that they have been filing all required forms with the state under the Lockheed ID numbers. Trinity will investigate this matter (Ref. 16).

As a result of a complaint, the state conducted an inspection of the facility on April 2, 1990. At this time, the facility was in the process of terminating operations. Fewer than ten workers are employed by the facility, and their responsibilities are limited to site cleanup and maintenance. As the result of this inspection, the facility was issued a Notice of Violation for minor infractions. No evidence was found to support the citizen complaint concerning the discharge of wastes from the facility (Ref. 5).

2.2 SITE DESCRIPTION

2.2.1 Site Features

The site consists of the south yard (about 8 acres), the ship basin (7 acres), TMI marina and north yard (about 7 acres), and west storage area (about 5 acres) (Ref. 11, p.12) (Appendix A). The property is partly fenced restricting access from land. However, access from the Wilmington River and Williamson Creek is unrestricted (Ref. 17, pp. 34). The property is also guarded (Ref. 17, p. 3).

The south yard is bordered on the north by the ship basin, on the east by the Wilmington River, and on the south and west by Williamson Creek. The facilities in the south yard include machine, pipe cutting, and electrical shops; a paint shop; paint storage sheds; hazardous materials storage area, assembly areas, transfer pit, and a sandblast area (Ref. 1, pp. 8-12).

The paint shop is located on the east side of this yard (Figure 2). A consultant for the property owner reported that the floor drains in the paint shop may drain into the adjacent salt marsh (Ref. 17, p. 13). However, this remains unconfirmed. Workers were observed transferring solvents from one 55-gallon drum to another at the south end of the paint shop in an undiked area which sloped towards a storm drain (Ref. 17, p. 10). Painting is done in the paint shop, the sandblast area, and the

overflow sandblast area (Refs. 1, p. 9; 17, p. 11). Paint storage sheds are located southeast of the paint shop (Refs. 1, p. 9; 17, pp. 4, 5).

The hazardous waste storage area contains two large waste oil tanks in a diked area. The storage area was constructed by Lockheed in 1978 (Ref. 1, pp. 3, 10). A stain measuring 31 feet by 17 feet and having a petroleum-like odor was observed on the west side of the storage area. A facility representative claimed that the stain was sandblasting grit, which they used as fill material around the property (Ref. 17, pp. 8, 23). Another area of stained soil measuring 30 feet by 10 feet was found on the east side and appeared to have come from a plastic pipe inserted into the top of one of the waste oil tanks (Ref. 17, pp. 16, 23). The diking around the waste oil tanks has a drain valve, and a small stain was observed beneath it (Ref. 17, p. 9). During the time that Lockheed operated the facility, the liquid that collected within the diking was periodically drained to the ground (Ref. 1, p. 10). A number of other small stains were scattered around the south yard (Ref. 17, p. 11). A number of drums were observed on the ground and on pallets outside of the hazardous waste storage area. Reportedly, the week prior to the inspection, the drums in the storage area had been scattered about the yard (Ref. 17, p. 13). In 1988, when Lockheed had the property assessed, drums of solvent and portable fuel tanks were seen on the ground outside of the hazardous waste storage area (Ref. 1, p. 10).

Ships are brought to the sand blast area from the ship basin via a rail system. The ships are first placed on rolling cradles and lifted from the water on the syncrolift. The vessel is then rolled south to the transfer pit, where it can then be moved east or west to one of the shops or sandblast area. The sandblast area has been in use between 12 and 14 years and is in the southeast portion of the south yard (Ref. 17, p. 8). Sandblast grit is kept uncontained; two piles and a thick covering of grit were observed in the sandblasting area (Ref. 17, pp. 18-19).

The overflow sandblast area (a.k.a. subassembly platens) is located in the north part of the south yard. Lockheed used this area for assembly of vessels. Some sandblasting, painting, and paint and drum storage has occurred in this area (Refs. 1, p. 11; 17).

A metal shed surrounded by a variety of junk, including an empty 55-gallon drum formerly containing methyl ethyl ketone (MEK), is located near the south end of the yard (Ref. 17, pp. 9, 34). Two deteriorated paper drums containing a pliable, pink, solid and a small amount of red liquid; and a discarded oil boom were located in the north part of the south yard (Ref. 17, pp. 33, 34).

The basin is used for the transfer of components from the north yard to the south yard. TMI dredge barges and ships built in the yard also dock here. A syncrolift is located in the center of the south side of the basin (Ref. 1, p. 12).

The north yard and TMI marina are bordered on the north by River Road, on the east by the Wilmington River, on the south by the ship basin, and on the west by Sylvan Island Road (Ref. 1, p. 14) (Figure 2). Two aboveground fuel storage tanks are located near the northwest corner of the north yard. Fuel from these tanks is delivered to the TMI marina via underground lines. Metal stock is stored in the north yard. Activities carried out in the north yard include welding, cutting of metal stock using both hydraulic and plasma cutters, vehicle and equipment maintenance, a minor amount of parts cleaning, descaling of raw steel with steel shot, priming of steel, and painting in an automated spray booth (Ref. 1, pp. 5-7). Reportedly, Lockheed disposed of the overspray filters with the general facility trash (Ref. 1, p. 7). The TMI marina is used by private pleasure crafts (Ref. 1).

The west storage area is located on the west side of Sylvan Island Road and is bordered by salt marsh on the south and west. This area was used by Lockheed for equipment storage (Ref. 1, pp. 7-8) (Appendix A). The area is currently used by the TMI dredging company (Ref. 17, pp. 4-5).

2.2.2 Waste Characteristics

An important part of ship construction and maintenance is the application of marine coatings to prevent fouling by marine organisms and corrosion. Marine coatings are comprised of three parts: an organic solvent to thin the binder in order to allow application, an organic binder to create a continuous solid film upon curing, and a pigment. Antifouling paints most commonly contain cuprous oxide and/or organotin compounds that are the active biocidal agent. The paint may also contain a leaching agent or rosin to allow controlled release of the active ingredient. The most common marine anticorrosive coatings are vinyls, chlorinated rubbers, epoxies (especially polyamide-cured varieties), urethanes, polyesters, inorganic zincs, and zinc-rich organics (Ref. 18).

Among the trialkyl tins (a class of organotin compounds), tributyl tin is known for providing the best balance of fungicidal and bacterial activity and mammalian toxicity (Ref. 19, p. 59). Triorganotins are also preferred antifoulants because they degrade into alkylated species and nontoxic inorganic tin, once liberated from the paint (Ref. 19, p. 60).

The toxicity of organotin compounds depends upon the type of organic groups bonded to the tin. In trialkyl tin compounds, the toxicity typically decreases as the length of the alkyl groups increases. As a class, the triorganotin compounds are the most toxic followed in order of toxicity by the

diorganotins and the monoorganotins, with some exceptions. The oral LD₅₀'s (rat) range from 133 to 200 mg/kg for tributyl tin compounds and from 126 to 800 for dibutyl tin compounds (Ref. 19).

In the body, organotins are found distributed mainly in the blood and liver with a lesser amount in the muscle, spleen, heart, or brain (Ref. 20). Most trialkyl tins have been studied and cause acute chemical burns or subacute dermal irritation, as well as encephalopathy and cerebral edema (Refs. 19, 20). Dermal absorption of tributyl tin halides is possible as evidenced by systematic effects observed in rabbits (Ref. 19). On March 1, 1990, a rule restricting the use of tributyl tin antifoulant paints became effective. The application of these paints can only be done by specially trained, certified commercial applicators (Ref. 21).

Surfaces must be prepared by sanding or abrasive blasting to obtain adequate bonding. This creates the potential for air release of fine particulates. Settling of the particulates and subsequent washdown creates the potential for release to soil, surface water, and sediments (Ref. 18). Particles entering surface water near Thunderbolt are likely to be trapped in sediments with little migration from the point of discharge (Ref. 22).

Much of the sand blasting currently conducted is done on previously painted boats, but some is also done to remove fire scale and rust from new ships (Refs. 3; 17, p. 10). Reportedly, the bilges (hull interior) of ships being sandblasted are drained to an unlined pit between the rails in the sandblast area (Ref. 17, p. 10). During this inspection, sandblast grit was found between the rails to a depth of 10 feet. The accumulated grit between the rails is periodically removed to facilitate access to all parts of the hull. Sandblasting is not conducted under any type of cover to prevent particles from migrating into the adjacent salt marsh (Ref. 17, p. 34). The grit in the sandblast area was about 1 foot deep (Ref. 17, p. 19). Sandblast grit was found among the marsh grasses and in the sediments of Williamson Creek adjacent to the sandblast area (Ref. 17, p. 32). The total volume of sandblast grit in the area is estimated to be 837 cubic yards (Ref. 23). Both natural materials and a manmade silica sand have been used for sandblasting (Refs. 1, p. 9; 3).

Black Beauty[®], the sandblasting grit currently used by the facility, is a by-product of coal combustion (Refs. 17, p. 6; 24). Typically, it is a fused, ferro-alumino-silicate in the form of a noncrystalline glass. The manufacturer is Reed Minerals of Highland, Indiana (Ref. 24). The Material Safety Data Sheet for these materials states that the uncontaminated product is not EP toxic and is considered inert (Ref. 25). Analysis of the material was provided by the manufacturer and indicates that the pure product may contain arsenic and beryllium (Ref. 26). An analysis of the mineral content was also provided (Ref. 27). A 1983 analysis of the Latex Construction waste grit (the trade name of the grit used at that time is unknown) revealed the presence of lead (Ref. 28).

The overflow sandblast area, which is currently used for a limited amount of painting, was partially covered by a thin layer of sandblast grit (Ref. 17, pp. 11, 34). Three roll-on, roll-off dumpsters were located in this area. One dumpster was filled with crushed drums and discarded gas cylinders, and the other two were filled with debris. This area appeared to have been recently cleaned (Ref. 17, pp. 4, 5, 12).

The current head of safety and security for Thunderbolt Shipbuilding reported that most painting is done in dry dock, but some touchup work may be done in the water. Oil booms are put in place, and absorbent materials are kept on hand whenever work is done in the water (Ref. 3).

Other hazardous materials known to have been used at the facility include solvents (i.e. MEK, methyl isobutyl ketone, xylene), hydraulic oil, freon, and automatic transmission fluid (Ref. 1). Trinity's hazardous waste is collected by Ashland Chemical as was Lockheed's waste (Refs. 1, p. 4; 17, p. 8). The waste sandblast grit is disposed of in a local landfill (Ref. 17, p. 13). Storm drains and perhaps floor drains from some of the buildings discharge to the basin and Williamson Creek (Refs. 1; 17, pp. 4, 5, 13; 29).

Although the hazardous waste storage and sandblast area are potential sources of greatest concern, there are a number of stains throughout the south yard. There is also evidence that sandblast grit has been used as fill in numerous areas. Since the south yard was constructed from dredge spoils from the basin, there is the possibility that the soils throughout the entire yard are contaminated.

3.0 REGIONAL POPULATIONS AND ENVIRONMENTS

3.1 POPULATION AND LAND USE

3.1.1 Demography

The site is located in a small, industrial area surrounded by residential neighborhoods. All of the city of Thunderbolt (population 2576) and a large portion of Savannah lie within 4 miles of the site (Appendix A) (Ref. 30). The total population within a 4-mile radius of Latex Construction is estimated as 80,303 based on the 1980 U.S. Census. The population distribution is 1459 people between 0 and 1 mile, 16,152 between 1 and 2 miles, 27,823 between 2 and 3 miles, and 34,869 between 3 and 4 miles (Ref. 31).

There are two schools close to the facility. Thunderbolt Elementary is located 2800 feet to the northwest and has a student population of 682 (Ref. 32) (Appendix A). Savannah State College is located 2800 feet west of the Latex property and has a student body of about 2200 and a faculty of about 500 (Ref. 33) (Appendix A).

3.1.2 Land Use

The facility is located in the southernmost portion of Thunderbolt. The areas to the south and east are sparsely populated, while areas to the north and west are densely populated suburbs of Savannah. Almost the entire town of Thunderbolt lies within 1 mile of the shipyard. The closest residence lies about 100 feet to the north. The facility is bordered by extensive salt marshes on the south and west (Appendix A).

3.2 SURFACE WATER

3.2.1 Climatology

The climate is characterized by mild temperatures and abundant rainfall. The area's net annual precipitation is approximately 4 inches, and the 1-year, 24-hour rainfall is approximately 3.5 inches (Refs. 34, 35).

3.2.2 Surface Drainage

Surface water runoff from the facility flows directly into Williamson Creek, which flows into a tidal portion of the Wilmington River, or runoff may flow directly into the river. The river then continues south for 2 miles before breaking into a number of channels, which enter the Atlantic Ocean within 15 stream miles of the facility. Both Williamson Creek and the Wilmington River are subject to tidal flushing and are bordered by extensive salt marshes (Ref. 17) (Appendix A).

3.2.3 Potentially Affected Water Bodies

All the coastal rivers and creeks in this area are used for recreational fishing (Refs. 17, p. 30; 36). The Savannah River in Chatham County and Wassaw Sound support a significant amount of commercial fishing. Commercially harvested species include crab, clams, conch, carp, shad, and sturgeon (Ref. 37). The Wilmington River supports a commercial crab fishery, and the extensive salt marshes provide a recruitment area for shrimp (Ref. 38). There is also commercial fishing for Eastern Oysters in Wassaw Sound (Ref. 39).

Some endangered or threatened species, including Shortnosed Sturgeon (Acipenser brevirostrum), Atlantic Green Sea Turtle (Chelonia mydas), Hawksbill Turtle (Eretmochelys), Brown Pelican (Pelecanus occidentalis carolinensis), West Indian Manatee (Trichechus manatus), and Bald Eagle (Haliaeetus leucocephalus) may be found in the Savannah Area (Ref. 40). However, there are no critical habitats designated in Chatham County (Ref. 41). There are nesting areas for the Loggerhead Turtle (Caretta caretta) along coastal beaches in the area (Ref. 39).

3.3 GROUNDWATER

3.3.1 Hydrogeology

The Savannah area is located within the Atlantic Coastal Physiographic Province. Nearly horizontal sedimentary rocks that gently dip to the southeast comprise the water-bearing units of concern in the Savannah area. Surficial sediments of Quaternary age form the Savannah area's surficial aquifer (Ref. 42, plate 7, p. 15). This surficial unit is composed mainly of sand and is generally less than 80 feet thick in the Savannah area (Ref. 43). Groundwater from the surficial aquifer is adequate for domestic use in some inland areas; however, near the ocean and along tidal estuaries, brackish water is often encountered (Ref. 44, pp. 33-37). Sandy deposits of the surficial aquifer rest unconformably upon the Hawthorn Formation (Ref. 45, p. 14). The Hawthorn Formation is of Miocene age and is composed of sandy silt, feldspathic phosphatic sand, and slightly dolomitic, sandy, phosphatic, fossiliferous

limestone (Ref. 42, p. 15). In the Savannah area, a thick section of green silt and clay contributes to the Hawthorn Formation's confining properties (Ref. 44, pp. 29-31). Thick sand zones and lenses of limestone within the Hawthorn produce moderately large volumes of water under artesian conditions (Refs. 43; 44, p. 30). The Hawthorn Formation is approximately 120 feet thick in the area; and even though it is used as a source for some private wells, it is an important confining unit in the Savannah area (Refs. 43; 44, p. 14). The vertical conductivity of the least permeable layers within the Hawthorn Formation has been calculated to average 1.3×10^{-3} ft/day (4.59×10^{-7} cm/sec) in Chatham County (Ref. 46, p. 28).

The underlying formations of Miocene, Oligocene, and Eocene ages are collectively termed the Floridan aquifer, also known as the Principal Artesian aquifer (Ref. 44, pp. 14, 37). In descending stratigraphic order, the geologic units which constitute the principal artesian aquifer are the Tampa Limestone, undifferentiated rocks, the Ocala Limestone, the Gosport Sand, and the Lisbon Formation. The Lisbon Formation serves as the lower confining unit in this hydrologic system (Ref. 44). Yields in the principal artesian aquifer range from 200 gpm in the Tampa Limestone to 4200 gpm in the Ocala Limestone (Ref. 44, pp. 14, 15). The transmissivity in the principal artesian aquifer ranges from 25,000 to 50,000 ft²/day in the Savannah area (Ref. 45, plate 1).

Large groundwater withdrawals from the principal artesian aquifer in Savannah have created a cone of depression that extends laterally beyond the city (Refs. 43; 47, p. 111). This cone of depression has a very steep gradient, which results in an artificially induced downward component in the movement of water within the surficial aquifer. The principal artesian aquifer influences recharge from the surficial aquifer toward the cone of depression. The interconnection, however, between the principal artesian aquifer and overlying units is very slight according to U.S. Geological Survey personnel familiar with the area (Ref. 43).

The groundwater flow direction in the principal artesian aquifer is greatly influenced by the cone of depression. The principal artesian aquifer's groundwater flow direction at the Latex property is north and west toward the center of pumping (Ref. 47, p. 111). Groundwater within the surficial aquifer is most likely to flow east toward the Wilmington River or south toward Williamson Creek (Appendix A). The water table within the surficial aquifer is located within 10 feet below land surface at the facility (Ref. 1, pp. 27, 29).

3.3.2 Aquifer Use

Nearly all the residential water needs of Chatham County are provided by groundwater from deep wells drilled into the principal artesian aquifer (Ref. 48). The water needs of communities within

4 miles of Latex Construction are served either by one of five municipal water systems or by private wells. The Chatham County, Hunter Army Airfield, Thunderbolt, and Savannah water systems obtain their water from deep wells. The Savannah Industrial and Development Water System, which supplies water for industry and to the Savannah system during peak summer periods, obtains its water from Abercorn Creek. There are 14 municipal wells serving approximately 160,000 residents that lie within 3 miles of the facility (Refs. 49, 50). The nearest lies 2700 feet north of the facility (Ref. 51). Private potable water wells in Chatham County are generally cased to 300 feet and have an additional 100 feet of open hole. Shallow wells for potable water are illegal (Ref. 48). No private wells were found during a reconnaissance of the facility (Ref. 51).

3.4 SUMMARY OF POTENTIALLY AFFECTED POPULATIONS AND ENVIRONMENTS

There are four pathways of concern for the facility: surface water, air, onsite pathways, and groundwater.

The surface water is the primary pathway of concern at the Latex Construction facility. The site borders extensive salt marshes and is on waterbodies that are extensively commercially and recreationally fished. A number of aquatic endangered species are also found in the waters of the site area.

The air and onsite pathways are also of concern because of the sandblasting activities at the site and the presence of uncontained potentially contaminated surface soils. Potentially affected targets within 4 miles include students, employees, and residents. The estimated population within 4 miles of the site is 80,303. There is a population of 1439 within 1 mile that is a potential target for the onsite exposure pathway. A number of terrestrial endangered species may also be found in the area.

Groundwater is of minor concern because the surficial aquifer is not used for potable water. The aquifer of concern in the Savannah area is the Floridan, which is confined by a thick, clay layer.

4.0 FIELD INVESTIGATION

4.1 SAMPLE COLLECTION

4.1.1 Sample Collection Methodology

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation were in accordance with standard operating procedures as specified in Sections 3 and 4 of the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division, April 1, 1986.

4.1.2 Duplicate Samples

Duplicate samples were taken during this investigation. The offer of duplicate samples was accepted by Rudy Cherry III of Westinghouse Environmental Services, representing the property owner, and by Gary Raven of Trinity Industries, representing Trinity Marine, Inc. (Ref. 17).

4.1.3 Description of Samples and Sample Locations

A total of 17 samples were collected for this inspection. Samples were taken in four potential source areas, the sandblast area, overflow sandblast area, hazardous waste storage, basin, and along likely migration pathways, in an attempt to identify and characterize contaminants that may be present in the environment as a result of activities at the facility. Samples collected consisted of 6 surface soil, 5 subsurface soil, and 6 sediment samples. Two of the sediment samples, one in Williamson Creek and one in the Wilmington River, were collected as control samples. No true background sediment samples could be collected because tidal flushing could potentially move contaminants upstream, as well as downstream. No groundwater samples were collected because of the lack of targets associated with the surficial aquifer. Sample locations are described in detail in Table 7 and are shown in Figure 4.

TABLE 7

**SAMPLE CODES, DESCRIPTION, AND RATIONALE
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA**

Sample Code	Description	Rationale
LC-SS-01	Background sample taken from grassy strip at north end of west storage area parking lot. Collected between 1/2 and 2 feet below land surface (bls).	To determine background surface soil conditions.
LC-SS-02	Source sample taken 3 feet south of hazardous waste storage area below drain in dike around waste oil tank. Soil slightly stained. Collected between 0 and 4 inches bls.	To determine if contaminants have been drained to ground from within diking.
LC-SS-03	Source sample taken just east of rails in sandblast area. Collected beneath loose sandblast grit at a depth of 1.5 feet bls.	To determine if contaminants are present in the sandblast area.
LC-SS-04	Source sample taken about 100 feet south of building between grit pile and sandblast area. Collected 8 inches bls.	To determine if contaminants are present in the sandblast area.
LC-SS-05	Source sample taken from large stain on west side of hazardous waste storage area. Collected 1/2 inch bls.	To determine if contaminants are present in the stain.
LC-SS-06	Source sample taken 150 feet south of basin and 120 feet east of pit. Collected 4 inches bls.	To determine if contaminants are present in this area where some sandblasting seems to have been done.
LC-SB-01	Background sample taken from same hole as LC-SS-01. Saturated soil collected 5 feet bls.	To determine background subsurface soil conditions.
LC-SB-02	Source sample taken 60 feet southeast of hazardous waste storage area. Saturated soil collected between 4 and 6 feet bls.	To determine if contaminants are present in south end of yard which may have been filled.

LC - Latex Construction
SS - Surface Soil
SB - Subsurface Soil
SD - Sediment

TABLE 7
SAMPLE CODES, DESCRIPTION, AND RATIONALE
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

Sample Code	Description	Rationale
LC-SB-03	Source sample taken between transfer rails in sandblast area. Saturated soil collected beneath 10 feet of sandblast sand. Sample depth is between 10 and 12 feet bls.	To determine if contaminants are present in subsurface soils in sandblast area.
LC-SB-04	Source sample taken from same hole as LC-SS-04. Saturated soil collected 6 feet bls.	To determine if contaminants are present in subsurface soils in sandblast area.
LC-SB-05	Source sample taken 3 feet from LC-SS-06. Saturated soil collected between 4 1/2 and 5 feet bls.	To determine if contaminants are present in area where some sandblasting and filling may have been done.
LC-SD-01	Control sample taken 50 feet east of Rivers End dock and 100 feet south of commercial shrimp boat docks in Wilmington River. Collected with ponar dredge in 20 feet of water at low tide.	To isolate contaminants in sediments originating on site from those originating from offsite sources.
LC-SD-02	Source sample taken from center of basin. Collected with hand auger in 16 feet of water at low tide.	To determine if contamination attributable to facility operations has entered the Wilmington River.
LC-SD-03	Downgradient sample taken from Wilmington River 75 feet south of basin and 100 feet east of the shore. Collected with ponar dredge in 8 feet of water.	To determine if contamination attributable to facility operations has entered the Wilmington River.
LC-SD-04	Control sample taken in Williamson Creek at first island south of facility. Collected with hand auger in 7 feet of water during incoming tide.	To isolate contaminants originating on site from those originating off site.

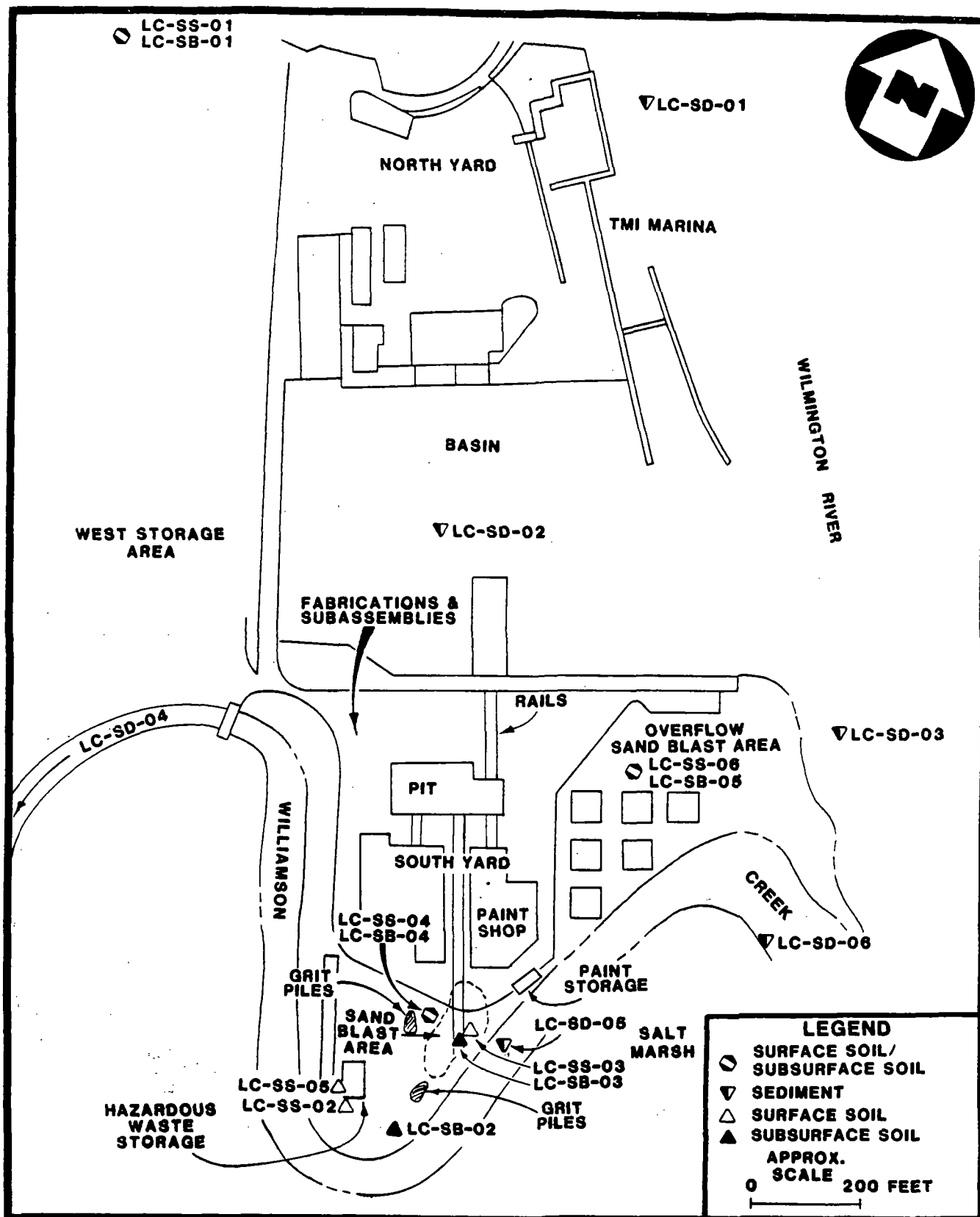
LC - Latex Construction
SS - Surface Soil
SB - Subsurface Soil
SD - Sediment

TABLE 7

SAMPLE CODES, DESCRIPTION, AND RATIONALE
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

Sample Code	Description	Rationale
LC-SD-05	Source sample taken in Williamson Creek 10 feet from shore adjacent to sandblast area near an outfall pipe. Collected with hand auger in 4 1/2 feet of water during incoming tide. Sandblast grit was found on top of sediments in the marsh.	To determine if contaminants attributable to facility had entered Williamson Creek.
LC-SD-06	Downgradient sample taken 100 feet north of mouth of Williamson Creek near south bank in about 6 feet of water.	To determine if contaminants attributable to facility had entered Williamson Creek.

LC - Latex Construction
SS - Surface Soil
SB - Subsurface Soil
SD - Sediment



**SAMPLE LOCATION MAP
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA**

FIGURE 4



4.2 SAMPLE ANALYSIS

4.2.1 Analytical Support and Methodology

All samples collected were analyzed under the Contract Laboratory Program (CLP) and analyzed for all parameters listed in the Target Compound List (TCL). Organic analysis of soil samples was performed by CompuChem Laboratories, Research Triangle Park, North Carolina. Inorganic analysis of soil samples was performed by DataChem, Salt Lake City, Utah. Special analytical services were performed by Environmental Science & Engineering, Gainesville, Florida.

All laboratory analyses and laboratory quality assurance procedures used during this investigation were in accordance with standard procedures and protocols as specified in the Analytical Support Branch Operations and Quality Assurance Manual, United States Environmental Protection Agency, Region IV, Environmental Services Division, revised June 1, 1985; or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for the contract analytical laboratory program.

4.2.2 Analytical Data Quality

All analytical data were subjected to a quality assurance review as described in the EPA, Environmental Services Division laboratory data guidelines. In the tables, some of the concentrations of the organic and inorganic parameters have been flagged with a "J". This indicates that the qualitative analysis was acceptable, but the quantitative value has been estimated. A few other compounds are flagged with an "N" indicating that they were detected based on the presumptive evidence of their presence. This means that the compound was tentatively identified, and its detection cannot be used as positive identification to its presence. The complete analytical data sheets are presented in Appendix B.

4.2.3 Presentation of Analytical Results

Throughout the following discussion of analytical results, the concentrations of some of the contaminants detected have been described as "significant." This means that the concentration was either three times that found in the background/control sample, or it was 3 times the minimum quantitation limit (MQL).

Special analytical services were requested for monobutyl tin, dibutyl tin, tributyl tin, monophenyl tin, diphenyl tin, triphenyl tin, and total tin because of the use of organotin compounds as antifouling

agents in marine coatings. No phenyl tins were detected. All organotin compounds were confirmed by gas chromatography/mass spectrometry. This analysis was done on all samples except LC-SS-05.

4.2.3.1 Sandblast Area

Four soil samples were collected in the sandblast area, and sediment samples were collected in Williamson Creek adjacent to and downstream of the sandblast area. Significant concentrations of a variety of polyaromatic hydrocarbons (PAHs), typical indicators of petroleum and oil products; metals; and organotin compounds were detected in the sandblast area.

Phenanthrene (4 times MQL) and fluoranthene (4.8 times MQL) were found in the surface soil sample collected west of the transfer rails (LC-SS-04). Ethyl benzene (3 times MQL), xylenes (4 times MQL), phenanthrene (4 times MQL), fluoranthene (7.8 times MQL), and pyrene (6 times MQL) were found in the subsurface soil sample between the transfer rails (LC-SB-03). The PAHs detected could be from the draining of bilges in the sandblast area or from fuel spills. Three miscellaneous polynuclear aromatics (PNAs) and one organic solvent were also tentatively identified at estimated concentrations ranging from 200 to 4000 ug/kg in surface soil samples. Tentative identifications and estimated concentrations were also made for two PNAs and 15 other purgeable compounds in subsurface soil samples. Organic analytical results are summarized in Table 8.

Surface soil samples from the sandblast area contained only one metallic contaminant of note. Zinc was found at concentrations of 7 times background. In contrast to this, subsurface soil samples contained numerous metals at elevated levels. The subsurface soil sample collected adjacent to the rails contained 10 metals, including cadmium, chromium, copper, vanadium, and zinc, ranging from 3 to 12 times the MQL or background level. The sample collected from between the rails contained 15 metals, including arsenic, barium, cadmium, chromium, copper, lead, vanadium, and zinc, ranging from 4 to 115 times background or MQL levels. Most of the metals found could come from more than one source or activity on the property. Marine coatings may contain a variety of trace metals. Red lead and zinc chromate are used as anticorrosives; cuprous oxide, as well as organotin compounds are used as antifoulants, and almost all the metals detected on site are used as paint pigments. Copper, chrome, and arsenic are also commonly used as wood preservatives. Heavy metals also occur in silicon dioxide abrasives such as volcanic ash, sand, etc., which are used in sandblasting. Sandblasting itself releases steel alloys such as beryllium, vanadium, cadmium, and nickel in particulate form. Trace amounts of lead, chromium, arsenic, zinc, magnesium, and other metals also occur in fuel oils and other petroleum products. Inorganic analytical results are summarized in Table 9.

TABLE 8

SUMMARY OF ORGANIC ANALYTICAL RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (ug/kg)	Background	Haz. Waste Storage (HWS)	Sandblast Area		Stain Near HWS	Overflow Sandblast Area	Background	South End of Yard Near HWS	Sandblast Area		Overflow Sandblast Area
	LC-SS-01	LC-SS-02	LC-SS-03	LC-SS-04	LC-SS-05	LC-SS-06	LC-SB-01	LC-SB-02	LC-SB-03	LC-SB-04	LC-SB-05
PURGEABLE COMPOUNDS											
CHLOROFORM	-	5J	4J	6J	1J	2J	5J	9J	4J	-	2J
TOLUENE	-	7	-	3J	11	2J	-	3J	7J	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	21	-	-
TOTAL XYLENES	-	-	-	-	2J	-	-	-	28	-	-
EXTRACTABLE COMPOUNDS											
NAPHTHALENE	-	-	-	100J	-	-	-	-	-	-	-
2-METHYLNAPHTHALENE	-	-	-	-	21,000J	-	-	-	-	-	-
ACENAPHTHENE	-	-	-	170J	-	-	-	-	300J	-	-
DIBENZOFURAN	-	-	-	84J	-	-	-	-	-	-	-
FLUORENE	-	-	-	150J	19,000J	-	-	-	-	-	-
PHENANTHRENE	-	-	-	1600	38,000	-	-	-	1600	-	-
ANTHRACENE	-	-	-	360J	-	39J	-	-	250J	-	-
FLUORANTHENE	-	180J	110J	1800	-	340J	-	-	2900	51J	47J
PYRENE	-	170J	-	1300J	-	250J	-	89J	2400	60J	-

- Material analyzed for but not detected above minimum quantitation limit
- J Estimated value
- N Presumptive evidence of presence of material

TABLE 8

**SUMMARY OF ORGANIC ANALYTICAL RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA**

PARAMETERS (ug/kg)	Background	Haz. Waste Storage (HWS)	Sandblast Area		Stain Near HWS	Overflow Sandblast Area	Background	South End of Yard Near HWS	Sandblast Area		Overflow Sandblast Area
	LC-SS-01	LC-SS-02	LC-SS-03	LC-SS-04	LC-SS-05	LC-SS-06	LC-SB-01	LC-SB-02	LC-SB-03	LC-SB-04	LC-SB-05
BENZO(A)ANTHRACENE	-	100J	51J	800	-	130J	-	-	930	-	-
CHRYSENE	-	140J	59J	750	-	170J	-	-	1200	-	-
BENZO(B AND/OR K)FLUORANTHENE	-	210J	-	1000J	-	130J	-	-	680J	-	-
BENZO(A)PYRENE	-	100J	43J	630	-	140J	-	-	1000	-	-
INDENO(1,2,3-CD)PYRENE	-	53J	-	300J	-	78J	-	-	380J	-	-
DIBENZO(A,H)ANTHRACENE	-	-	-	-	-	-	-	-	150J	-	-
BENZO(GH)PERYLENE	-	59J	-	320J	-	84J	-	-	460J	-	-
OXYBIS(ETHANOL) DIACETATE	-	-	-	-	-	-	500JN	-	-	-	-
ETHANEDIOL MONOACETATE	-	-	-	4000JN	-	-	4000JN	-	-	-	-
DIMETHYLNAPHTHALENE	-	-	-	-	100,000JN	-	-	-	1000JN	-	-
TRIMETHYLNAPHTHALENE	-	-	-	-	200,000JN	-	-	-	3000JN	-	-
CHLOROTRIS(METHYLPROPYL)STANNANE	-	800JN	-	-	-	300JN	-	-	20,000JN	-	-
BENZENEACETIC ACID	200JN	-	-	-	-	-	-	-	-	-	-
ETHYLIDENE BIS(ETHYLBENZENE)	-	200JN	-	-	-	-	-	-	-	-	-
BENZOPYRENE(101 A)	-	300JN	-	-	-	400JN	-	-	-	-	-

- Material analyzed for but not detected above minimum quantitation limit
J Estimated value
N Presumptive evidence of presence of material

TABLE 8

SUMMARY OF ORGANIC ANALYTICAL RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (ug/kg)	Background	Haz. Waste Storage (HWS)	Sandblast Area		Stain Near HWS	Overflow Sandblast Area	Background	South End of Yard Near HWS	Sandblast Area		Overflow Sandblast Area
	LC-SS-01	LC-SS-02	LC-SS-03	LC-SS-04	LC-SS-05	LC-SS-06	LC-SB-01	LC-SB-02	LC-SB-03	LC-SB-04	LC-SB-05
TRIBROMOPHENOL	-	-	-	300JN	-	-	-	-	-	-	-
CYCLOPENTAFENANTHRENE	-	-	-	200JN	-	-	-	-	-	-	-
BENZOFLORENE	-	-	-	300JN/2	-	-	-	-	-	-	-
BENZOFLOREANTHRENE (NOT B OR C)	-	-	-	400JN	-	-	-	-	-	-	-
PETROLEUM PRODUCT	-	-	-	-	N	-	-	-	-	-	-
UNIDENTIFIED COMPOUNDS NO.	5000J/5	2000J/4	-	600J/1	5,000,000J/17	5000J/8	5000J/2	-	30,000J/15	800J/2	1000J/2
PESTICIDE\PCB COMPOUNDS											
4,4'-DDE (P,P'-DDE)	37	-	-	-	-	-	-	-	-	-	-
GAMMA-CHLORDANE /2	-	-	-	-	930	-	-	-	-	-	-
PCB-1248 (AROCOR 1248)	-	-	-	-	-	-	-	-	280	-	-

- Material analyzed for but not detected above minimum quantitation limit
J Estimated value
N Presumptive evidence of presence of material

TABLE 9

SUMMARY OF INORGANIC ANALYTICAL RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (mg/kg)	Background	Haz. Waste Storage	Sandblast Area		Stain	Overflow Sandblast Area	Background	South End of Yard	Sandblast Area		Overflow Sandblast Area
	LC-SS-01	LC-SS-02	LC-SS-03	LC-SS-04	LC-SS-05	LC-SS-06	LC-SB-01	LC-SB-02	LC-SB-03	LC-SB-04	LC-SB-05
ALUMINUM	5800	7700	3100	1700	7600	8000	5300	33,000	20,000	11,000	8200
ARSENIC	-	3.1J	-	-	3J	3.5J	-	-	8.8J	-	.14J
BARIUM	26	58	-	-	100	130	10	37	64	17	14
BERYLLIUM	-	-	-	-	2.8	2.9	-	-	-	-	-
CADMIUM	-	-	-	-	14	13	-	-	5.8	2.7	2.6
CALCIUM	1700J	3700J	450J	3700J	8600J	6800J	880J	27,000J	4900J	3700J	9700J
CHROMIUM	-	33J	2.4J	5.2J	97J	91J	5J	49J	39J	18J	13J
COBALT	-	8.5	-	-	30	19	-	11	11	5.8	-
COPPER	-	150	-	-	1700	1300	-	-	460	48	-
IRON	2800J	12,000J	760J	2700J	36,000J	33,000J	910J	22,000J	24,000J	9500J	6400J
LEAD	22	190	14	18	1500	770	-	13	95	14	17
MAGNESIUM	280	850	-	240	1300	1100	140	8300	2400	1500	960
MANGANESE	74J	88J	11J	24J	560J	270J	16J	220J	180J	83J	80J
MERCURY	-	0.13	-	-	1.2	-	-	-	-	-	0.18
NICKEL	-	-	-	-	230	190	-	-	-	-	-
POTASSIUM	150	790	-	210	990	1000	-	2300	1900	1000	440

- Material analyzed for but not detected above minimum quantitation limit
J Estimated value

TABLE 9

SUMMARY OF INORGANIC ANALYTICAL RESULTS
 SURFACE AND SUBSURFACE SOIL SAMPLES
 LATEX CONSTRUCTION
 THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (mg/kg)	Background	Haz. Waste Storage	Sandblast Area		Stain	Overflow Sandblast Area	Background	South End of Yard	Sandblast Area		Overflow Sandblast Area
	LC-SS-01	LC-SS-02	LC-SS-03	LC-SS-04	LC-SS-05	LC-SS-06	LC-SB-01	LC-SB-02	LC-SB-03	LC-SB-04	LC-SB-05
SODIUM	-	-	-	-	510	490	-	830	2200	410	350
VANADIUM	-	12	3.8	-	16	18	4.5	63	40	26	19
ZINC	14	410	25	110	2600	2140	7	56	630	58	21

- Material analyzed for but not detected above minimum quantitation limit
 J Estimated value

The highest concentrations of organotin compounds on the property were found in the sandblast area near the rails. However, other samples taken in the sandblast area farther away from the rails contained no significant organotin levels. The surface soil sample contained dibutyl tin (7 times estimated MQL) and tributyl tin (15 times estimated MQL). The subsurface soil sample was collected between the rails and contained monobutyl tin (3.8 times estimated MQL), dibutyl tin (37 times MQL), and tributyl tin (38 times MQL). Levels of total tin were 6 times above the estimated MQL in the subsurface soil sample in the sandblast area. Another organotin, chlorotris(methylpropyl)stannane, was tentatively identified at an estimated concentration of 20,000 ug/kg in the subsurface soil sample taken between the rails. This compound is representative of the intermediates used in the preparation of commercially important organotins (Ref. 19, p. 61). Inorganic tin is the final degradation product of organotin compounds. The results from the special analytical services are summarized in Table 10.

Sediment samples were collected in Williamson Creek. The sample adjacent to the sandblast area was collected at an outfall pipe. It is unknown where on the property this pipe originates, as neither it nor a nearby storm drain appears on the blueprint of the facility (Ref. 29). No organic compounds were detected at significant concentrations in either this sample or in the downgradient sample. Organic analytical results for sediments are summarized in Table 11.

Six metals were found at significant concentrations in sediment from Williamson Creek adjacent to the sandblast area. The metals of concern are barium (4 times control), cadmium (17 times control), copper (65 times control), lead (51 times control), nickel (185 times MQL), and zinc (15 times control). Significant levels of cadmium (13 times MQL), copper (4.6 times MQL), and lead (4 times control) were found at the creek mouth. This indicates that these metals may be migrating from their point of deposition to the Wilmington River. Inorganic analytical results for sediments are presented in Table 12.

Dibutyl tin (8 times MQL) and tributyl tin (7 times MQL) were found at significant levels in the sediments adjacent to the sandblast area. Total tin was found at 8 times (estimated) the MQL in this area. Chlorotris(methylpropyl)stannane was also tentatively identified in this sample. However, the downgradient sample contained no detectable levels of tin or tin compounds. The results for sediments from special analytical services are summarized in Table 13.

TABLE 10

SUMMARY OF SPECIAL ANALYTICAL SERVICES
SURFACE AND SUBSURFACE SOIL SAMPLES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS	Background	Haz. Waste Storage (HWS)	Sandblast Area		Stain Near HWS	Overflow Sandblast Area	Background	South End of Yard Near HWS	Sandblast Area		Overflow Sandblast Area
	LC-SS-01	LC-SS-02	LC-SS-03	LC-SS-04	LC-SS-05	LC-SS-06	LC-SB-01	LC-SB-02	LC-SB-03	LC-SB-04	LC-SB-05
MONOBUTYL TIN (ug/kg)	-	99JC	44JC	-	NA	32JC	-	-	93JC	-	-
DIBUTYL TIN (ug/kg)	-	310C	170C	33N	NA	81C	-	-	930C	-	-
TRIBUTYL TIN (ug/kg)	-	410JC	370C	35N	NA	93C	-	35N	970C	31N	40N
TIN (mg/kg)	-	11J	-	-	NA	180J	-	-	35J	19J	-

- Material analyzed for but not detected above minimum quantitation limit
- J Estimated value
- N Presumptive evidence of presence of material
- C Confirmed by GCMS
- NA Not analyzed

TABLE 11

SUMMARY OF ORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

	Control Wilmington River	Center of Basin	Downgradient Wilmington River	Control Williamson Creek	Creek Near Paint Shop	Mouth of Williamson. Creek
PARAMETERS (ug/kg)	LC-SD-01	LC-SD-02	LC-SD-03	LC-SD-04	LC-SD-05	LC-SD-06
PURGEABLE COMPOUNDS						
CHLOROFORM	-	-	4J	2J	-	-
EXTRACTABLE COMPOUNDS						
FLUORANTHENE	180J	-	-	-	380J	-
PYRENE	210J	-	-	-	-	-
BENZO(A)ANTHRACENE	110J	-	-	-	-	-
CHRYSENE	110J	-	-	-	190J	74J
BENZO(B AND/OR K)FLUORANTHENE	140J	-	-	-	130J	220J
BENZO-A-PYRENE	-	-	-	-	150J	87J
ETHANEDIOL MONOACETATE	-	-	3000JN	-	-	-
CHLOROTRIS(METHYLPROPYL)STANNANE	-	-	-	-	1000JN	-
UNIDENTIFIED COMPOUNDS/NO.	3000J/2	-	-	-	700J/1	2000J/2

- Material analyzed for but not detected above minimum quantitation limit
- J Estimated value
- N Presumptive evidence of presence of material

TABLE 12

SUMMARY OF INORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS (mg/kg)	Control River	Center of Basin	Downgradient River	Control Creek	Creek Near Paint Shop	Creek Mouth
	LC-SD-01	LC-SD-02	LC-SD-03	LC-SD-04	LC-SD-05	LC-SD-06
ALUMINUM	10,000	52,000	2200	23,000	26,000	23,000
ARSENIC	3.9J	19J	-	5.5J	7.9J	-
BARIUM	13	-	-	28	100	23
BERYLLIUM	-	-	-	-	2.5	-
CADMIUM	-	14	-	-	17	13
CALCIUM	6400J	3400J	7000J	10,000J	3400J	9400J
CHROMIUM	19J	78J	4.6J	33J	54J	30J
COBALT	-	21	-	8.9	14	13
COPPER	-	34	-	6.3	410	29
IRON	10,000J	41,000J	2200J	19,000J	27,000J	19,000J
LEAD	10	34	3.9	9.9	510	44
MAGNESIUM	1900	8600	590	4800	3700	3800
MANGANESE	76J	310J	22J	160J	170J	93J
NICKEL	-	-	-	-	74	-
POTASSIUM	750	4200	240	2300	3600	3100
SODIUM	4300	22,000	2000	4600	12,000	13,000
VANADIUM	27	110	8.6	45	56	50
ZINC	32	97	-	60	940	55

- Material analyzed for but not detected above minimum quantitation limit
J Estimated value

TABLE 13

SUMMARY OF SPECIAL ANALYTICAL SERVICES
SEDIMENT SAMPLES
LATEX CONSTRUCTION
THUNDERBOLT, CHATHAM COUNTY, GEORGIA

PARAMETERS	Control River	Center of Basin	Downgradient River	Control Creek	Creek Near Paint Shop	Creek Mouth
	LC-SD-01	LC-SD-02	LC-SD-03	LC-SD-04	LC-SD-05	LC-SD-06
DiBUTYL TIN (ug/kg)	-	-	-	-	270C	-
TRIbutYL TIN (ug/kg)	32N	-	-	-	620C	-
TIN (mg/kg)	-	-	-	-	90J	-

- Material analyzed for but not detected above minimum quantitation limit
- J Estimated value
- N Presumptive evidence of presence of material
- C Confirmed by GCMS

4.2.3.2 Overflow Sandblast Area

A surface and a subsurface soil sample were collected in the overflow sandblast area. No significant concentrations of organic contaminants were found in the samples. Organic analytical results are presented in Table 8.

Fifteen metals were detected in the surface soil sample at concentrations ranging from 3 to 185 times background or MCL. The metals of concern are arsenic (3.5 times MQL, estimated), barium (5 times background), beryllium (6 times MQL), cadmium (19 times MQL), chromium (45 times estimated MQL), cobalt (7 times MQL), copper (185 times MQL), lead (35 times background), nickel (42 times MQL), and zinc (152 times background). Nine metals were detected in the subsurface soil sample at concentrations ranging from 3 to 26 times background or MCL. The metals of concern are arsenic (26 times MQL, estimated), cadmium (3 times MQL), vanadium (4 times background), and zinc (3 times background). Inorganic analytical results are presented in Table 9.

Dibutyl tin (3 times estimated MQL) and tributyl tin (4 times estimated MQL) were found in surface soils. Chlorotris(methylpropyl)stannane was also tentatively identified in this sample. Total tin was found at 42 times the MQL in the surface soil sample. No significant levels of tin or organotin compounds were found in the subsurface soil sample. The results from the special analytical services are summarized in Table 10.

4.2.3.3 Hazardous Waste Storage

Two surface soil and a subsurface soil sample were collected near the hazardous waste storage area. One surface soil sample was collected from a stain adjacent to the area, and one was collected below a drain in the diking surrounding the area. The subsurface soil sample was collected at a distance southeast of the storage area because of difficulty advancing the bore hole through subsurface debris adjacent to the storage area. The stain contained high concentrations of three PAHs, 2-methylnaphthalene (estimated at 56 times MQL), fluorene (estimated at 51 times MQL), and phenanthrene (102 times MQL). Gamma-chlordane was detected in the stain at 10 times the MQL. An additional 17 unidentified extractable compounds were found at an estimated concentration of 5,000,000 ug/kg. No significant levels of organic contaminants were found in the other two samples. The stain and resulting contamination are likely the result of poor housekeeping practices in the hazardous waste storage area. The organic analytical results are summarized in Table 8.

The surface soil sample collected below the drain contained nine metals at levels significantly above background. The metals of concern are arsenic (estimated 3 times MQL), chromium (estimated

15 times estimated MQL), cobalt (3 times MQL), copper (21 times MQL), lead (8 times background), and zinc (29 times background). Sixteen metals were detected at significant levels in the stain, with concentrations ranging between 4 and 185 times background. The majority of metals found in the stain can be related to waste oils. The subsurface soil sample contained elevated levels of 10 metals. The metals of concern in this sample are barium (3.7 times background), chromium (estimated 10 times background), vanadium (14 times background), and zinc (8 times background). Inorganic results are summarized in Table 9.

The only significant levels of organotins in the hazardous waste storage area were found below the drain. Mono- (4 times MQL), di- (12 times MQL), and tributyl (16 times estimated MQL) tins were found. Chlorotris(methylpropyl)stannane was also tentatively identified in this sample. Total tin was not found at significant levels. The results from special analytical services are summarized in Table 10.

4.2.3.4 Basin

A sample was collected in the basin and another was collected downstream. No significant concentrations of organic or organotin compounds were found in either sample. The organic results and the results from specified analytical services are summarized in Tables 11 and 13.

Thirteen metals were found at significant levels in the center of the basin, and the concentrations ranged from 3 to 13 times the control. The metals of concern are arsenic (5 times control, estimated), cadmium (14 times MQL), chromium (4 times control, estimated), cobalt (5 times MQL), lead (3 times control), vanadium (4 times control), and zinc (3 times control). No significant levels of metals were found in the downgradient sample. It is possible that the contaminants in the basin have originated from the TMI marina. Inorganic analytical results are presented in Table 12.

5.0 SUMMARY

The field inspection of Latex Construction consisted of the collection of 17 environmental samples of sediment, surface, and subsurface soil. These samples were taken from four potential source areas and along likely migration pathways. Analytical results indicated the presence of a variety of organic and inorganic contaminants at the facility. Contamination was found in each of the source areas and in both surface and subsurface soil samples. Contamination from the sandblast area also appears to be entering Williamson Creek and the salt marsh along its banks.

Pathways of concern at the ship yard are surface water, air, onsite, and groundwater pathways. The surface water pathway is of concern because contamination was found in sediments of Williamson Creek. The surface waters and marshes provide habitats for a number of threatened and endangered species and also support a large amount of commercial and recreational fishing.

The air and onsite pathways are of concern because of contaminated surface soils onsite and because sandblasting continues to release potentially contaminated particulates. The facility is not only located in a residential area, it is also adjacent to a sensitive environment. Although the facility is fenced, restricting access from the land, the area is in an active boating community and access from the water is unhindered.

Almost all of Chatham County relies on groundwater as a source of drinking water. However, all wells in the area draw from below a thick confining layer, and the groundwater pathway is therefore of minor concern.

Based upon the field inspection, FIT 4 recommends that a Listing Site Inspection, Phase I, be conducted.

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U.S. EPA REGION IV

SDMS

Unscannable Material Target Sheet

DocID: 10724658 Site ID: GAD980803696

Site Name: LATEX CONSTRUCTION CO.

Nature of Material:

Map: X

Computer Disks:

Photos:

CD-ROM:

Blueprints:

Oversized Report:

Slides:

Log Book:

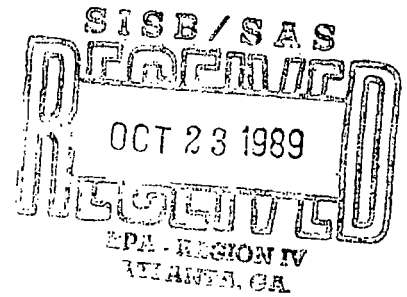
Other (describe): TOPOGRAPHIC MAP

Amount of material:

* Please contact the appropriate Records Center to view the material *

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 10/13/89

SUBJECT: Results of Purgeable Organic Analysis;
89-537 LATEX CONSTRUCTION
SAVANNAH GA
CASE NO: 12698SAS NO: 4921D

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PURGEABLE ORGANICS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39768 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-01 COLLECTION START: 09/11/89 1245 STOP: 00/00/00 **
**
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N367 **

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
11UJ	CHLOROMETHANE	6U	1,2-DICHLOROPROPANE
11U	BROMOMETHANE	6U	CIS-1,3-DICHLOROPROPENE
11U	VINYL CHLORIDE	6U	TRICHLOROETHENE (TRICHLOROETHYLENE)
11U	CHLOROETHANE	6UJ	DIBROMOCHLOROMETHANE
20U	METHYLENE CHLORIDE	6U	1,1,2-TRICHLOROETHANE
11UJ	ACETONE	6U	BENZENE
6U	CARBON DISULFIDE	6U	TRANS-1,3-DICHLOROPROPENE
6U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	6U	BROMOFORM
6U	1,1-DICHLOROETHANE	11U	METHYL ISOBUTYL KETONE
6U	1,2-DICHLOROETHENE (TOTAL)	11U	METHYL BUTYL KETONE
6U	CHLOROFORM	6U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
6U	1,2-DICHLOROETHANE	6U	1,1,2,2-TETRACHLOROETHANE
11U	METHYL ETHYL KETONE	6U	TOLUENE
6U	1,1,1-TRICHLOROETHANE	6U	CHLOROBENZENE
6UJ	CARBON TETRACHLORIDE	6U	ETHYL BENZENE
11U	VINYL ACETATE	6U	STYRENE
6U	BROMODICHLOROMETHANE	6U	TOTAL XYLENES
		12	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

10/12/89

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*** PROJECT NO. 89-537      SAMPLE NO. 39769  SAMPLE TYPE: SOIL      PROG ELEM: NSF      COLLECTED BY: G CARTON      **
** SOURCE: LATEX CONSTRUCTION                                CITY: SAVANNAH      ST: GA      **
** STATION ID: SB-01                                          COLLECTION START: 09/11/89  1255  STOP: 00/00/00      **
**                                                                                                                                            **
** CASE NO.: 12698      SAS NO.: 4921D      D. NO.: N368      **
***

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UG/KG	ANALYTICAL RESULTS
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7U 1,2-DICHLOROPROPANE
7U CIS-1,3-DICHLOROPROPENE
7U TRICHLOROETHENE (TRICHLOROETHYLENE)
7UJ DIBROMOCHLOROMETHANE
7U 1,1,2-TRICHLOROETHANE
7U BENZENE
7U TRANS-1,3-DICHLOROPROPENE
7U BROMOFORM
13U METHYL ISOBUTYL KETONE
13U METHYL BUTYL KETONE
7U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
7U 1,1,2,2-TETRACHLOROETHANE
7U TOLUENE
7U CHLOROBENZENE
7U ETHYL BENZENE
7U STYRENE
7U TOTAL XYLENES
25 PERCENT MOISTURE

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REMARKS

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PURGEABLE ORGANICS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39770 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-02 COLLECTION START: 09/11/89 1410 STOP: 00/00/00 **
**
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N369 **

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
11UJ	CHLOROMETHANE	6U	1,2-DICHLOROPROPANE
11U	BROMOMETHANE	6U	CIS-1,3-DICHLOROPROPENE
11U	VINYL CHLORIDE	6U	TRICHLOROETHENE (TRICHLOROETHYLENE)
11U	CHLOROETHANE	6UJ	DIBROMOCHLOROMETHANE
30U	METHYLENE CHLORIDE	6U	1,1,2-TRICHLOROETHANE
30UJ	ACETONE	6U	BENZENE
6U	CARBON DISULFIDE	6U	TRANS-1,3-DICHLOROPROPENE
6U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	6U	BROMOFORM
6U	1,1-DICHLOROETHANE	11U	METHYL ISOBUTYL KETONE
6U	1,2-DICHLOROETHENE (TOTAL)	11U	METHYL BUTYL KETONE
5J	CHLOROFORM	6U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
6U	1,2-DICHLOROETHANE	6U	1,1,2,2-TETRACHLOROETHANE
11U	METHYL ETHYL KETONE	7	TOLUENE
6U	1,1,1-TRICHLOROETHANE	6U	CHLOROBENZENE
6UJ	CARBON TETRACHLORIDE	6U	ETHYL BENZENE
11U	VINYL ACETATE	6U	STYRENE
6U	BROMODICHLOROMETHANE	6U	TOTAL XYLENES
		11	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PURGEABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39771   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SB-02   COLLECTION START: 09/11/89   1445   STOP: 00/00/00   **
**
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: N370   **
*** ** ** ** *
  
```

UG/KG ANALYTICAL RESULTS

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19UJ CHLOROMETHANE
19U  BROMOMETHANE
19U  VINYL CHLORIDE
19U  CHLOROETHANE
70U  METHYLENE CHLORIDE
30UJ ACETONE
9U   CARBON DISULFIDE
9U   1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
9U   1,1-DICHLOROETHANE
9U   1,2-DICHLOROETHENE (TOTAL)
9J   CHLOROFORM
9U   1,2-DICHLOROETHANE
19U  METHYL ETHYL KETONE
9U   1,1,1-TRICHLOROETHANE
9UJ  CARBON TETRACHLORIDE
19U  VINYL ACETATE
9U   BROMODICHLOROMETHANE
  
```

UG/KG ANALYTICAL RESULTS

```

9U   1,2-DICHLOROPROPANE
9U   CIS-1,3-DICHLOROPROPENE
9U   TRICHLOROETHENE(TRICHLOROETHYLENE)
9UJ  DIBROMOCHLOROMETHANE
9U   1,1,2-TRICHLOROETHANE
9U   BENZENE
9U   TRANS-1,3-DICHLOROPROPENE
9U   BROMOFORM
19U  METHYL ISOBUTYL KETONE
19U  METHYL BUTYL KETONE
9U   TETRACHLOROETHENE(TETRACHLOROETHYLENE)
9U   1,1,2,2-TETRACHLOROETHANE
3J   TOLUENE
9U   CHLOROBENZENE
9U   ETHYL BENZENE
9U   STYRENE
9U   TOTAL XYLENES
46   PERCENT MOISTURE
  
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REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

10/12/89

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** PROJECT NO. 89-537 SAMPLE NO. 39772 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-03 COLLECTION START: 09/11/89 1605 STOP: 00/00/00 **
**
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N371 **
**

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UG/KG	ANALYTICAL RESULTS
6U	1,2-DICHLOROPROPANE
6U	CIS-1,3-DICHLOROPROPENE
6U	TRICHLOROETHENE (TRICHLOROETHYLENE)
6UJ	DIBROMOCHLOROMETHANE
6U	1,1,2-TRICHLOROETHANE
6U	BENZENE
6U	TRANS-1,3-DICHLOROPROPENE
6U	BROMOFORM
11U	METHYL ISOBUTYL KETONE
11U	METHYL BUTYL KETONE
6U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
6U	1,1,2,2-TETRACHLOROETHANE
6U	TOLUENE
6U	CHLOROBENZENE
6U	ETHYL BENZENE
6U	STYRENE
6U	TOTAL XYLENES
10	PERCENT MOISTURE

REMARKS

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PURGEABLE ORGANICS DATA REPORT

*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39773 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-03 COLLECTION START: 09/11/89 1615 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N372 **
*** ** ** ** **

UG/KG ANALYTICAL RESULTS
18UJ CHLOROMETHANE
18U BROMOMETHANE
18U VINYL CHLORIDE
18U CHLOROETHANE
200U METHYLENE CHLORIDE
70UJ ACETONE
9U CARBON DISULFIDE
9U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
9U 1,1-DICHLOROETHANE
9U 1,2-DICHLOROETHENE (TOTAL)
4J CHLOROFORM
9U 1,2-DICHLOROETHANE
18U METHYL ETHYL KETONE
9U 1,1,1-TRICHLOROETHANE
9UJ CARBON TETRACHLORIDE
18U VINYL ACETATE
9U BROMODICHLOROMETHANE

UG/KG ANALYTICAL RESULTS
9U 1,2-DICHLOROPROPANE
9U CIS-1,3-DICHLOROPROPENE
9U TRICHLOROETHENE(TRICHLOROETHYLENE)
9UJ DIBROMOCHLOROMETHANE
9U 1,1,2-TRICHLOROETHANE
9U BENZENE
9U TRANS-1,3-DICHLOROPROPENE
9U BROMOFORM
18U METHYL ISOBUTYL KETONE
18U METHYL BUTYL KETONE
9U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
9U 1,1,2,2-TETRACHLOROETHANE
7J TOLUENE
9U CHLOROBENZENE
21 ETHYL BENZENE
9U STYRENE
28 TOTAL XYLENES
45 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

10/12/89

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*** SOURCE/ANALYSIS DATA REPORT ***
** PROJECT NO. 89-537   SAMPLE NO. 39774   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SS-04   COLLECTION START: 09/11/89 1715   STOP: 00/00/00   **

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**      CASE NO. : 12698              SAS NO. : 4921D              D. NO. : N373
**

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SAC NO.: 7-1621B	SAC NO.: 7-4921D	SAC NO.: 7-NR78	SAC NO.: 7-NR78
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS

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14UJ CHLOROMETHANE
14U  BROMOMETHANE
14U  VINYL CHLORIDE
14U  CHLOROETHANE
40UJ METHYLENE CHLORIDE
50U  ACETONE
7U   CARBON DISULFIDE
7U   1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
7U   1,1-DICHLOROETHANE
7U   1,2-DICHLOROETHENE (TOTAL)
6J   CHLOROFORM
7U   1,2-DICHLOROETHANE
14U  METHYL ETHYL KETONE
7U   1,1,1-TRICHLOROETHANE
7U   CARBON TETRACHLORIDE
14U  VINYL ACETATE
7U   BROMODICHLOROMETHANE

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7U 1,2-DICHLOROPROPANE
7U CIS-1,3-DICHLOROPROPENE
7UJ TRICHLOROETHENE (TRICHLOROETHYLENE)
7UJ DIBROMOCHLOROMETHANE
7U 1,1,2-TRICHLOROETHANE
7U BENZENE
7U TRANS-1,3-DICHLOROPROPENE
7U BROMOFORM
14U METHYL ISOBUTYL KETONE
14U METHYL BUTYL KETONE
7U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
7U 1,1,2,2-TETRACHLOROETHANE
3J TOLUENE
7U CHLOROBENZENE
7U ETHYL BENZENE
7U STYRENE
7U TOTAL XYLENES
31 PERCENT MOISTURE

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REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PURGEABLE ORGANICS DATA REPORT

*** **
** PROJECT NO. 89-537 SAMPLE NO. 39775 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-04 COLLECTION START: 09/11/89 1735 STOP: 00/00/00 **
**
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P236 **
*** **

UG/KG ANALYTICAL RESULTS

12UJ	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
30UJ	METHYLENE CHLORIDE
20U	ACETONE
6U	CARBON DISULFIDE
6U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
6U	1,1-DICHLOROETHANE
6U	1,2-DICHLOROETHENE (TOTAL)
6U	CHLOROFORM
6U	1,2-DICHLOROETHANE
12U	METHYL ETHYL KETONE
6U	1,1,1-TRICHLOROETHANE
6U	CARBON TETRACHLORIDE
12U	VINYL ACETATE
6U	BROMODICHLOROMETHANE

UG/KG ANALYTICAL RESULTS

6U	1,2-DICHLOROPROPANE
6U	CIS-1,3-DICHLOROPROPENE
6UJ	TRICHLOROETHENE(TRICHLOROETHYLENE)
6UJ	DIBROMOCHLOROMETHANE
6U	1,1,2-TRICHLOROETHANE
6U	BENZENE
6U	TRANS-1,3-DICHLOROPROPENE
6U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
6U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
6U	1,1,2,2-TETRACHLOROETHANE
6U	TOLUENE
6U	CHLOROBENZENE
6U	ETHYL BENZENE
6U	STYRENE
6U	TOTAL XYLENES
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PURGEABLE ORGANICS DATA REPORT

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*** * * * *
** PROJECT NO. 89-537   SAMPLE NO. 39776   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA
** STATION ID: 55-05   COLLECTION START: 09/12/89 0845   STOP: 00/00/00
**
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: P237
*** * * * *
  
```

UG/KG ANALYTICAL RESULTS

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11UJ CHLOROMETHANE
11UJ BROMOMETHANE
11U  VINYL CHLORIDE
11U  CHLOROETHANE
30UJ METHYLENE CHLORIDE
50UJ ACETONE
6UJ  CARBON DISULFIDE
6U  1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
6UJ 1,1-DICHLOROETHANE
6U  1,2-DICHLOROETHENE (TOTAL)
1J  CHLOROFORM
6U  1,2-DICHLOROETHANE
11UJ METHYL ETHYL KETONE
6U  1,1,1-TRICHLOROETHANE
6U  CARBON TETRACHLORIDE
11UJ VINYL ACETATE
6U  BROMODICHLOROMETHANE
  
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UG/KG ANALYTICAL RESULTS

```

6U  1,2-DICHLOROPROPANE
6UJ CIS-1,3-DICHLOROPROPENE
6U  TRICHLOROETHENE(TRICHLOROETHYLENE)
6UJ DIBROMOCHLOROMETHANE
6U  1,1,2-TRICHLOROETHANE
6U  BENZENE
6UJ TRANS-1,3-DICHLOROPROPENE
6UJ BROMOFORM
11UJ METHYL ISOBUTYL KETONE
11UJ METHYL BUTYL KETONE
6U  TETRACHLOROETHENE(TETRACHLOROETHYLENE)
6U  1,1,2,2-TETRACHLOROETHANE
11  TOLUENE
6U  CHLOROBENZENE
6U  ETHYL BENZENE
6U  STYRENE
2J  TOTAL XYLENES
10  PERCENT MOISTURE
  
```

REMARKS

REMARKS

FOOTNOTES

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*A-AVERAGE VALUE   *NA-NOT ANALYZED   *NAI-INTERFERENCES   *J-ESTIMATED VALUE   *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN   *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
  
```

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PURGEABLE ORGANICS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39777 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-06 COLLECTION START: 09/12/89 0950 STOP: 00/00/00 **
**
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P238 **

UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

11UJ CHLOROMETHANE
11U BROMOMETHANE
11U VINYL CHLORIDE
11U CHLOROETHANE
20UJ METHYLENE CHLORIDE
20U ACETONE
5U CARBON DISULFIDE
5U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U 1,1-DICHLOROETHANE
5U 1,2-DICHLOROETHENE (TOTAL)
2J CHLOROFORM
5U 1,2-DICHLOROETHANE
11U METHYL ETHYL KETONE
5U 1,1,1-TRICHLOROETHANE
5U CARBON TETRACHLORIDE
11U VINYL ACETATE
5U BROMODICHLOROMETHANE

5U 1,2-DICHLOROPROPANE
5U CIS-1,3-DICHLOROPROPENE
5UJ TRICHLOROETHENE(TRICHLOROETHYLENE)
5UJ DIBROMOCHLOROMETHANE
5U 1,1,2-TRICHLOROETHANE
5U BENZENE
5U TRANS-1,3-DICHLOROPROPENE
5U BROMOFORM
11U METHYL ISOBUTYL KETONE
11U METHYL BUTYL KETONE
5U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5U 1,1,2,2-TETRACHLOROETHANE
2J TOLUENE
5U CHLOROBENZENE
5U ETHYL BENZENE
5U STYRENE
5U TOTAL XYLENES
6 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

10/12/89

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***      PROJECT NO. 89-537      SAMPLE NO. 39778      SAMPLE TYPE: SOIL      PROG ELEM: NSF      COLLECTED BY: G. CARTON      ***
***      SOURCE: LATEX CONSTRUCTION      CITY: SAVANNAH      ST: GA      ***
***      STATION ID: SB-05      COLLECTION START: 09/12/89      1005      STOP: 00/00/00      ***
***      CASE NO.: 12698      SAS NO.: 4921D      D. NO.: P239      ***

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UG/KG	ANALYTICAL RESULTS
6U	1,2-DICHLOROPROPANE
6U	CIS-1,3-DICHLOROPROPENE
6UJ	TRICHLOROETHENE (TRICHLOROETHYLENE)
6UJ	DIBROMOCHLOROMETHANE
6U	1,1,2-TRICHLOROETHANE
6U	BENZENE
6U	TRANS-1,3-DICHLOROPROPENE
6U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
6U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
6U	1,1,2,2-TETRACHLOROETHANE
2J	TOLUENE
6U	CHLOROBENZENE
6U	ETHYL BENZENE
6U	STYRENE
6U	TOTAL XYLENES
21	PERCENT MOISTURE

REMARKS

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

10/12/89

```

***PLEASE ORGANIZE DATA REPORT***
** PROJECT NO. 89-537    SAMPLE NO. 39779    SAMPLE TYPE: SOIL    PROG ELEM: NSF    COLLECTED BY: G CARTON    **
** SOURCE: LATEX CONSTRUCTION    CITY: SAVANNAH    ST: GA    **
** STATION ID: SD-01    COLLECTION START: 09/12/89 1300    STOP: 00/00/00    **

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**      CASE NO. : 12698              SAS NO. : 4921D              D. NO. : P240
**

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*** UG/KG ***		ANALYTICAL RESULTS		*** UG/KG ***		ANALYTICAL RESULTS	
1	0.00	1	0.00	1	0.00	1	0.00
2	0.00	2	0.00	2	0.00	2	0.00
3	0.00	3	0.00	3	0.00	3	0.00
4	0.00	4	0.00	4	0.00	4	0.00
5	0.00	5	0.00	5	0.00	5	0.00
6	0.00	6	0.00	6	0.00	6	0.00
7	0.00	7	0.00	7	0.00	7	0.00
8	0.00	8	0.00	8	0.00	8	0.00
9	0.00	9	0.00	9	0.00	9	0.00
10	0.00	10	0.00	10	0.00	10	0.00
11	0.00	11	0.00	11	0.00	11	0.00
12	0.00	12	0.00	12	0.00	12	0.00
13	0.00	13	0.00	13	0.00	13	0.00
14	0.00	14	0.00	14	0.00	14	0.00
15	0.00	15	0.00	15	0.00	15	0.00
16	0.00	16	0.00	16	0.00	16	0.00
17	0.00	17	0.00	17	0.00	17	0.00
18	0.00	18	0.00	18	0.00	18	0.00
19	0.00	19	0.00	19	0.00	19	0.00
20	0.00	20	0.00	20	0.00	20	0.00
21	0.00	21	0.00	21	0.00	21	0.00
22	0.00	22	0.00	22	0.00	22	0.00
23	0.00	23	0.00	23	0.00	23	0.00
24	0.00	24	0.00	24	0.00	24	0.00
25	0.00	25	0.00	25	0.00	25	0.00
26	0.00	26	0.00	26	0.00	26	0.00
27	0.00	27	0.00	27	0.00	27	0.00
28	0.00	28	0.00	28	0.00	28	0.00
29	0.00	29	0.00	29	0.00	29	0.00
30	0.00	30	0.00	30	0.00	30	0.00
31	0.00	31	0.00	31	0.00	31	0.00
32	0.00	32	0.00	32	0.00	32	0.00
33	0.00	33	0.00	33	0.00	33	0.00
34	0.00	34	0.00	34	0.00	34	0.00
35	0.00	35	0.00	35	0.00	35	0.00
36	0.00	36	0.00	36	0.00	36	0.00
37	0.00	37	0.00	37	0.00	37	0.00
38	0.00	38	0.00	38	0.00	38	0.00
39	0.00	39	0.00	39	0.00	39	0.00
40	0.00	40	0.00	40	0.00	40	0.00
41	0.00	41	0.00	41	0.00	41	0.00
42	0.00	42	0.00	42	0.00	42	0.00
43	0.00	43	0.00	43	0.00	43	0.00
44	0.00	44	0.00	44	0.00	44	0.00
45	0.00	45	0.00	45	0.00	45	0.00
46	0.00	46	0.00	46	0.00	46	0.00
47	0.00	47	0.00	47	0.00	47	0.00
48	0.00	48	0.00	48	0.00	48	0.00
49	0.00	49	0.00	49	0.00	49	0.00
50	0.00	50	0.00	50	0.00	50	0.00
51	0.00	51	0.00	51	0.00	51	0.00
52	0.00						

```

17UJ CHLOROMETHANE
17U  BROMOMETHANE
17U  VINYL CHLORIDE
17U  CHLOROETHANE
40UJ  METHYLENE CHLORIDE
17U  ACETONE
8U   CARBON DISULFIDE
8U   1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
8U   1,1-DICHLOROETHANE
8U   1,2-DICHLOROETHENE (TOTAL)
8U   CHLOROFORM
8U   1,2-DICHLOROETHANE
17U  METHYL ETHYL KETONE
8U   1,1,1-TRICHLOROETHANE
8U   CARBON TETRACHLORIDE
17U  VINYL ACETATE
8U   BROMODICHLOROMETHANE

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```

8U 1,2-DICHLOROPROPANE
8U CIS-1,3-DICHLOROPROPENE
8UJ TRICHLOROETHENE (TRICHLOROETHYLENE)
8UJ DIBROMOCHLOROMETHANE
8U 1,1,2-TRICHLOROETHANE
8U BENZENE
8U TRANS-1,3-DICHLOROPROPENE
8U BROMOFORM
17U METHYL ISOBUTYL KETONE
17U METHYL BUTYL KETONE
8U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
8U 1,1,2,2-TETRACHLOROETHANE
8U TOLUENE
8U CHLOROBENZENE
8U ETHYL BENZENE
8U STYRENE
8U TOTAL XYLENES
40 PERCENT MOISTURE

```

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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10/12/89

[illegible]

```

19U 1,2-DICHLOROPROPANE
19U CIS-1,3-DICHLOROPROPENE
19UJ TRICHLOROETHENE (TRICHLOROETHYLENE)
19UJ DIBROMOCHLOROMETHANE
19U 1,1,2-TRICHLOROETHANE
19U BENZENE
19U TRANS-1,3-DICHLOROPROPENE
19U BROMOFORM
37U METHYL ISOBUTYL KETONE
37U METHYL BUTYL KETONE
19U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
19U 1,1,2,2-TETRACHLOROETHANE
19U TOLUENE
19U CHLOROBENZENE
19U ETHYL BENZENE
19U STYRENE
19U TOTAL XYLENES
73 PERCENT MOISTURE

```

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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10/12/89

[illegible]

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PURGEABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39782   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SD-04   COLLECTION START: 09/12/89 1510   STOP: 00/00/00   **
**
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: P243   **
*** ** ** ** *
UG/KG   ANALYTICAL RESULTS   UG/KG   ANALYTICAL RESULTS

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16UJ CHLOROMETHANE
16U  BROMOMETHANE
16U  VINYL CHLORIDE
16U  CHLOROETHANE
40UJ METHYLENE CHLORIDE
30U  ACETONE
8U   CARBON DISULFIDE
8U   1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
8U   1,1-DICHLOROETHANE
8U   1,2-DICHLOROETHENE (TOTAL)
2J   CHLOROFORM
8U   1,2-DICHLOROETHANE
16U  METHYL ETHYL KETONE
8U   1,1,1-TRICHLOROETHANE
8U   CARBON TETRACHLORIDE
16U  VINYL ACETATE
8U   BROMODICHLOROMETHANE

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```

8U  1,2-DICHLOROPROPANE
8U  CIS-1,3-DICHLOROPROPENE
8UJ TRICHLOROETHENE(TRICHLOROETHYLENE)
8UJ DIBROMOCHLOROMETHANE
8U  1,1,2-TRICHLOROETHANE
8U  BENZENE
8U  TRANS-1,3-DICHLOROPROPENE
8U  BROMOFORM
16U METHYL ISOBUTYL KETONE
16U METHYL BUTYL KETONE
8U  TETRACHLOROETHENE(TETRACHLOROETHYLENE)
8U  1,1,2,2-TETRACHLOROETHANE
8U  TOLUENE
8U  CHLOROBENZENE
8U  ETHYL BENZENE
8U  STYRENE
8U  TOTAL XYLENES
37  PERCENT MOISTURE

```

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

10/12/89

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** PROJECT NO. 89-537    SAMPLE NO. 39783    SAMPLE TYPE: SOIL    PROG ELEM: NSF    COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION    CITY: SAVANNAH    ST: GA
** STATION ID: SD-05    COLLECTION START: 09/12/89 1550    STOP: 00/00/00

```

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**      CASE NO.: 12698                      SAS NO.: 4921D                      D. NO.: P244                      **

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UG/KG										ANALYTICAL RESULTS									
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20UJ CHLOROMETHANE
20U  BROMOMETHANE
20U  VINYL CHLORIDE
20U  CHLOROETHANE
60UJ METHYLENE CHLORIDE
70U  ACETONE
10U  CARBON DISULFIDE
10U  1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U  1,1-DICHLOROETHANE
10U  1,2-DICHLOROETHENE (TOTAL)
10U  CHLOROFORM
10U  1,2-DICHLOROETHANE
20U  METHYL ETHYL KETONE
10U  1,1,1-TRICHLOROETHANE
10U  CARBON TETRACHLORIDE
20U  VINYL ACETATE
10U  BROMODICHLOROMETHANE

```

UG/KG	ANALYTICAL RESULTS
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000
1100	1100
1200	1200
1300	1300
1400	1400
1500	1500
1600	1600
1700	1700
1800	1800
1900	1900
2000	2000
2100	2100
2200	2200
2300	2300
2400	2400
2500	2500
2600	2600
2700	2700
2800	2800
2900	2900
3000	3000
3100	3100
3200	3200
3300	3300
3400	3400
3500	3500
3600	3600
3700	3700
3800	3800
3900	3900
4000	4000
4100	4100
4200	4200
4300	4300
4400	4400
4500	4500
4600	4600
4700	4700
4800	4800
4900	4900
5000	5000
5100	5100
5200	5200
5300	5300
5400	5400
5500	5500
5600	5600
5700	5700
5800	5800
5900	5900
6000	6000
6100	6100
6200	6200
6300	6300
6400	6400
6500	6500
6600	6600
6700	6700
6800	6800
6900	6900
7000	7000
7100	7100
7200	7200
7300	7300
7400	7400
7500	7500
7600	7600
7700	7700
7800	7800
7900	7900
8000	8000
8100	8100
8200	8200
8300	8300
8400	8400
8500	8500
8600	8600
8700	8700
8800	8800
8900	8900
9000	9000
9100	9100
9200	9200
9300	9300
9400	9400
9500	9500
9600	9600
9700	9700
9800	9800
9900	9900
10000	10000

```

10U 1,2-DICHLOROPROPANE
10U CIS-1,3-DICHLOROPROPENE
10UJ TRICHLOROETHENE (TRICHLOROETHYLENE)
10UJ DIBROMOCHLOROMETHANE
10U 1,1,2-TRICHLOROETHANE
10U BENZENE
10U TRANS-1,3-DICHLOROPROPENE
10U BROMOFORM
20U METHYL ISOBUTYL KETONE
20U METHYL BUTYL KETONE
10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U 1,1,2,2-TETRACHLOROETHANE
10U TOLUENE
10U CHLOROBENZENE
10U ETHYL BENZENE
10U STYRENE
10U TOTAL XYLENES
50 PERCENT MOISTURE

```

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PURGEABLE ORGANICS DATA REPORT

*** **
** PROJECT NO. 89-537 SAMPLE NO. 39784 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-06 COLLECTION START: 09/12/89 1610 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P245 **
*** **

UG/KG ANALYTICAL RESULTS
21UJ CHLOROMETHANE
21U BROMOMETHANE
21U VINYL CHLORIDE
21U CHLOROETHANE
40U METHYLENE CHLORIDE
21UJ ACETONE
10U CARBON DISULFIDE
10U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U 1,1-DICHLOROETHANE
10U 1,2-DICHLOROETHENE (TOTAL)
10U CHLOROFORM
10U 1,2-DICHLOROETHANE
21U METHYL ETHYL KETONE
10U 1,1,1-TRICHLOROETHANE
10UJ CARBON TETRACHLORIDE
21U VINYL ACETATE
10U BROMODICHLOROMETHANE

UG/KG ANALYTICAL RESULTS
10U 1,2-DICHLOROPROPANE
10U CIS-1,3-DICHLOROPROPENE
10U TRICHLOROETHENE(TRICHLOROETHYLENE)
10UJ DIBROMOCHLOROMETHANE
10U 1,1,2-TRICHLOROETHANE
10U BENZENE
10U TRANS-1,3-DICHLOROPROPENE
10U BROMOFORM
21U METHYL ISOBUTYL KETONE
21U METHYL BUTYL KETONE
10U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U 1,1,2,2-TETRACHLOROETHANE
10U TOLUENE
10U CHLOROBENZENE
10U ETHYL BENZENE
10U STYRENE
10U TOTAL XYLENES
52 PERCENT MOISTURE

REMARKS

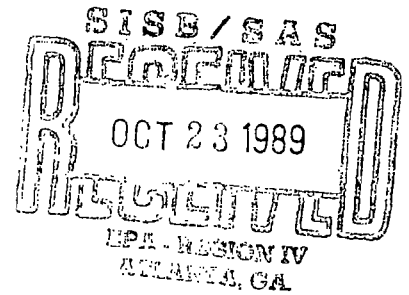
REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 10/13/89

SUBJECT: Results of Pesticide/PCB Analysis;
89-537 LATEX CONSTRUCTION
SAVANNAH GA
CASE NO: 12698SAS NO: 4921D

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PESTICIDES/PCB'S DATA REPORT

```

*** * * * *
** PROJECT NO. 89-537   SAMPLE NO. 39768   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SS-01   COLLECTION START: 09/11/89   1245   STOP: 00/00/00   **
** CASE NUMBER: 12698   SAS NUMBER: 4921D   D. NUMBER: N367   **
** * * * * *
  
```

UG/KG ANALYTICAL RESULTS

```

9.1U ALPHA-BHC
9.1U BETA-BHC
9.1U DELTA-BHC
9.1U GAMMA-BHC (LINDANE)
9.1U HEPTACHLOR
9.1U ALDRIN
9.1U HEPTACHLOR EPOXIDE
9.1U ENDOSULFAN I (ALPHA)
18U DIELDRIN
37 4,4'-DDE (P,P'-DDE)
18U ENDRIN
18U ENDOSULFAN II (BETA)
18U 4,4'-DDD (P,P'-DDD)
18U ENDOSULFAN SULFATE
18U 4,4'-DDT (P,P'-DDT)
  
```

UG/KG ANALYTICAL RESULTS

```

91U METHOXYCHLOR
18U ENDRIN KETONE
-- CHLORDANE (TECH. MIXTURE) /1
91U GAMMA-CHLORDANE /2
91U ALPHA-CHLORDANE /2
180U TOXAPHENE
91U PCB-1016 (AROCOR 1016)
91U PCB-1221 (AROCOR 1221)
91U PCB-1232 (AROCOR 1232)
91U PCB-1242 (AROCOR 1242)
91U PCB-1248 (AROCOR 1248)
180U PCB-1254 (AROCOR 1254)
180U PCB-1260 (AROCOR 1260)
12 PERCENT MOISTURE
  
```

REMARKS

REMARKS

FOOTNOTES

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*A-AVERAGE VALUE   *NA-NOT ANALYZED   *NAI-INTERFERENCES   *J-ESTIMATED VALUE   *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN   *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS   1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
  
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10/12/89

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*** PROJECT DATA REPORT ***
** PROJECT NO. 89-537    SAMPLE NO. 39769    SAMPLE TYPE: SOIL    PROG ELEM: NSF    COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION    CITY: SAVANNAH    ST: GA **
** STATION ID: SB-01    COLLECTION START: 09/11/89 1255    STOP: 00/00/00 **
** CASE NUMBER: 12698    SAS NUMBER: 4921D    D. NUMBER: N368 **

```

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PESTICIDES/PCB'S DATA REPORT

```

*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39770   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SS-02   COLLECTION START: 09/11/89   1410   STOP: 00/00/00   **
** CASE NUMBER: 12698   SAS NUMBER: 4921D   D. NUMBER: N369   **
** ** ** **

```

UG/KG ANALYTICAL RESULTS

```

18U ALPHA-BHC
18U BETA-BHC
18U DELTA-BHC
18U GAMMA-BHC (LINDANE)
18U HEPTACHLOR
18U ALDRIN
18U HEPTACHLOR EPOXIDE
18U ENDOSULFAN I (ALPHA)
36U DIELDRIN
36U 4,4'-DDE (P,P'-DDE)
36U ENDRIN
36U ENDOSULFAN II (BETA)
36U 4,4'-DDD (P,P'-DDD)
36U ENDOSULFAN SULFATE
36U 4,4'-DDT (P,P'-DDT)

```

UG/KG ANALYTICAL RESULTS

```

180U METHOXYCHLOR
36U ENDRIN KETONE
-- CHLORDANE (TECH. MIXTURE) /1
180U GAMMA-CHLORDANE /2
180U ALPHA-CHLORDANE /2
360U TOXAPHENE
180U PCB-1016 (AROCLOR 1016)
180U PCB-1221 (AROCLOR 1221)
180U PCB-1232 (AROCLOR 1232)
180U PCB-1242 (AROCLOR 1242)
180U PCB-1248 (AROCLOR 1248)
360U PCB-1254 (AROCLOR 1254)
360U PCB-1260 (AROCLOR 1260)
11 PERCENT MOISTURE

```

REMARKS

REMARKS

FOOTNOTES

```

*A-AVERAGE VALUE   *NA-NOT ANALYZED   *NAI-INTERFERENCES   *J-ESTIMATED VALUE   *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN   *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*C-CONFIRMED BY GCMS   1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

```

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PESTICIDES/PCB'S DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39771   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: S6-02   COLLECTION START: 09/11/89   1445   STOP: 00/00/00   **
** CASE NUMBER: 12698   SAS NUMBER: 4921D   D. NUMBER: N370   **
** ** ** **

```

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
30U	ALPHA-BHC	300U	METHOXYCHLOR
30U	BETA-BHC	59U	ENDRIN KETONE
30U	DELTA-BHC	--	CHLORDANE (TECH. MIXTURE) /1
30U	GAMMA-BHC (LINDANE)	300U	GAMMA-CHLORDANE /2
30U	HEPTACHLOR	300U	ALPHA-CHLORDANE /2
30U	ALDRIN	590U	TOXAPHENE
30U	HEPTACHLOR EPOXIDE	300U	PCB-1016 (AROCLOR 1016)
30U	ENDOSULFAN I (ALPHA)	300U	PCB-1221 (AROCLOR 1221)
59U	DIELDRIN	300U	PCB-1232 (AROCLOR 1232)
59U	4,4'-DDE (P,P'-DDE)	300U	PCB-1242 (AROCLOR 1242)
59U	ENDRIN	300U	PCB-1248 (AROCLOR 1248)
59U	ENDOSULFAN II (BETA)	590U	PCB-1254 (AROCLOR 1254)
59U	4,4'-DDD (P,P'-DDD)	590U	PCB-1260 (AROCLOR 1260)
59U	ENDOSULFAN SULFATE	46	PERCENT MOISTURE
59U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

10/12/89

[illegible]

*** UG/KG ANALYTICAL RESULTS ***		*** UG/KG ANALYTICAL RESULTS ***	
8.9U	ALPHA-BHC	89U	METHOXYCHLOR
8.9U	BETA-BHC	18U	ENDRIN KETONE
8.9U	DELTA-BHC	---	CHLORDANE (TECH. MIXTURE) /1
8.9U	GAMMA-BHC (LINDANE)	89U	GAMMA-CHLORDANE /2
8.9U	HEPTACHLOR	89U	ALPHA-CHLORDANE /2
8.9U	ALDRIN	180U	TOXAPHENE
8.9U	HEPTACHLOR EPOXIDE	89U	PCB-1016 (AROCOR 1016)
8.9U	ENDOSULFAN I (ALPHA)	89U	PCB-1221 (AROCOR 1221)
18U	DIELDRIN	89U	PCB-1232 (AROCOR 1232)
18U	4,4'-DDE (P,P'-DDE)	89U	PCB-1242 (AROCOR 1242)
18U	ENDRIN	89U	PCB-1248 (AROCOR 1248)
18U	ENDOSULFAN II (BETA)	180U	PCB-1254 (AROCOR 1254)
18U	4,4'-DDD (P,P'-DDD)	180U	PCB-1260 (AROCOR 1260)
18U	ENDOSULFAN SULFATE	10	PERCENT MOISTURE
18U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PESTICIDES/PCB'S DATA REPORT

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*** * * * *
** PROJECT NO. 89-537   SAMPLE NO. 39773   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SB-03   COLLECTION START: 09/11/89 1615   STOP: 00/00/00   **
** CASE NUMBER: 12698   SAS NUMBER: 4921D   D. NUMBER: N372   **
** * * * * *
  
```

UG/KG ANALYTICAL RESULTS

14U ALPHA-BHC
14U BETA-BHC
14U DELTA-BHC
14U GAMMA-BHC (LINDANE)
14U HEPTACHLOR
14U ALDRIN
14U HEPTACHLOR EPOXIDE
14U ENDOSULFAN I (ALPHA)
29U DIELDRIN
29U 4,4'-DDE (P,P'-DDE)
29U ENDRIN
29U ENDOSULFAN II (BETA)
29U 4,4'-DDD (P,P'-DDD)
29U ENDOSULFAN SULFATE
29U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

140U METHOXYCHLOR
29U ENDRIN KETONE
-- CHLORDANE (TECH. MIXTURE) /1
140U GAMMA-CHLORDANE /2
140U ALPHA-CHLORDANE /2
290U TOXAPHENE
140U PCB-1016 (AROCLOR 1016)
140U PCB-1221 (AROCLOR 1221)
140U PCB-1232 (AROCLOR 1232)
140U PCB-1242 (AROCLOR 1242)
280 PCB-1248 (AROCLOR 1248)
290U PCB-1254 (AROCLOR 1254)
290U PCB-1260 (AROCLOR 1260)
45 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

10/12/89

```

*** **
** PROJECT NO. 89-537      SAMPLE NO. 39774  SAMPLE TYPE: SOIL      PROG ELEM: NSF      COLLECTED BY: G CARTON      **
** SOURCE: LATEX CONSTRUCTION      CITY: SAVANNAH      ST: GA      **
** STATION ID: SS-04      COLLECTION START: 09/11/89  1715  STOP: 00/00/00      **
** CASE NUMBER: 12698      SAS NUMBER: 4921D      D. NUMBER: N373      **
**

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REMARKS

REMARKS

FOOTNOTES

COINOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PESTICIDES/PCB'S DATA REPORT

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*** * * * *
** PROJECT NO. 89-537   SAMPLE NO. 39775   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SB-04   COLLECTION START: 09/11/89 1735   STOP: 00/00/00   **
** CASE NUMBER: 12698   SAS NUMBER: 4921D   D. NUMBER: P236   **
** * * * * *
  
```

UG/KG ANALYTICAL RESULTS

```

20U  ALPHA-BHC
20U  BETA-BHC
20U  DELTA-BHC
20U  GAMMA-BHC (LINDANE)
20U  HEPTACHLOR
20U  ALDRIN
20U  HEPTACHLOR EPOXIDE
20U  ENDOSULFAN I (ALPHA)
39U  DIELDRIN
39U  4,4'-DDE (P,P'-DDE)
39U  ENDRIN
39U  ENDOSULFAN II (BETA)
39U  4,4'-DDD (P,P'-DDD)
39U  ENDOSULFAN SULFATE
39U  4,4'-DDT (P,P'-DDT)
  
```

UG/KG ANALYTICAL RESULTS

```

200U  METHOXYCHLOR
39U  ENDRIN KETONE
--  CHLORDANE (TECH. MIXTURE) /1
200U  GAMMA-CHLORDANE /2
200U  ALPHA-CHLORDANE /2
390U  TOXAPHENE
200U  PCB-1016 (AROCLOR 1016)
200U  PCB-1221 (AROCLOR 1221)
200U  PCB-1232 (AROCLOR 1232)
200U  PCB-1242 (AROCLOR 1242)
200U  PCB-1248 (AROCLOR 1248)
390U  PCB-1254 (AROCLOR 1254)
390U  PCB-1260 (AROCLOR 1260)
18  PERCENT MOISTURE
  
```

REMARKS

REMARKS

FOOTNOTES

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*A-AVERAGE VALUE   *NA-NOT ANALYZED   *NAI-INTERFERENCES   *J-ESTIMATED VALUE   *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN   *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS   1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
  
```

10/12/89

```

*** ** PROJECT NO. 89-537 SAMPLE NO. 39776 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON ***
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-05 COLLECTION START: 09/12/89 0845 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D D. NUMBER: P237 **

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REMARKS

REMARKS

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PESTICIDES/PCB'S DATA REPORT

 ** PROJECT NO. 89-537 SAMPLE NO. 39777 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
 ** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
 ** STATION ID: SS-06 COLLECTION START: 09/12/89 0950 STOP: 00/00/00 **
 ** CASE NUMBER: 12698 SAS NUMBER: 4921D D. NUMBER: P238 **
 ** ** ** **

UG/KG ANALYTICAL RESULTS

8.5U ALPHA-BHC
 8.5U BETA-BHC
 8.5U DELTA-BHC
 8.5U GAMMA-BHC (LINDANE)
 8.5U HEPTACHLOR
 8.5U ALDRIN
 8.5U HEPTACHLOR EPOXIDE
 8.5U ENDOSULFAN I (ALPHA)
 17U DIELDRIN
 17U 4,4'-DDE (P,P'-DDE)
 17U ENDRIN
 17U ENDOSULFAN II (BETA)
 17U 4,4'-DDD (P,P'-DDD)
 17U ENDOSULFAN SULFATE
 17U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

85U METHOXYCHLOR
 17U ENDRIN KETONE
 -- CHLORDANE (TECH. MIXTURE) /1
 85U GAMMA-CHLORDANE /2
 95U ALPHA-CHLORDANE /2
 170U TOXAPHENE
 85U PCB-1016 (AROCLOR 1016)
 85U PCB-1221 (AROCLOR 1221)
 85U PCB-1232 (AROCLOR 1232)
 85U PCB-1242 (AROCLOR 1242)
 85U PCB-1248 (AROCLOR 1248)
 170U PCB-1254 (AROCLOR 1254)
 170U PCB-1260 (AROCLOR 1260)
 6 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

10/12/89

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***PROJECT DATA REPORT***
** PROJECT NO. 89-537      SAMPLE NO. 39778  SAMPLE TYPE: SOIL      PROG ELEM: NSF    COLLECTED BY: G CARTON  **
** SOURCE: LATEX CONSTRUCTION  CITY: SAVANNAH      ST: GA              **
** STATION ID: SB-05          COLLECTION START: 09/12/89  1005  STOP: 00/00/00  **
** CASE NUMBER: 12698        SAS NUMBER: 4921D      D. NUMBER: P239      **
**

```

REMARKS

REMARKS

FOOTNOTES

**A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

10/12/89

```
** ** * PROJECT NO. 89-537 SAMPLE NO. 39779 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **  
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **  
** STATION ID: SD-01 COLLECTION START: 09/12/89 1300 STOP: 00/00/00 **  
** CASE NUMBER: 12698 SAS NUMBER: 4921D D. NUMBER: P240 **
```

*** UG/KG ANALYTICAL RESULTS ***		*** UG/KG ANALYTICAL RESULTS ***	
13U	ALPHA-BHC	130U	METHOXYCHLOR
13U	BETA-BHC	27U	ENDRIN KETONE
13U	DELTA-BHC	--	CHLORDANE (TECH. MIXTURE) /1
13U	GAMMA-BHC (LINDANE)	130U	GAMMA-CHLORDANE /2
13U	HEPTACHLOR	130U	ALPHA-CHLORDANE /2
13U	ALDRIN	270U	TOXAPHENE
13U	HEPTACHLOR EPOXIDE	130U	PCB-1016 (AROCOR 1016)
13U	ENDOSULFAN I (ALPHA)	130U	PCB-1221 (AROCOR 1221)
27U	DIELDRIN	130U	PCB-1232 (AROCOR 1232)
27U	4,4'-DDE (P,P'-DDE)	130U	PCB-1242 (AROCOR 1242)
27U	ENDRIN	130U	PCB-1248 (AROCOR 1248)
27U	ENDOSULFAN II (BETA)	270U	PCB-1254 (AROCOR 1254)
27U	4,4'-DDD (P,P'-DDD)	270U	PCB-1260 (AROCOR 1260)
27U	ENDOSULFAN SULFATE	40	PERCENT MOISTURE
27U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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10/12/89

[illegible]

FOOTNOTES

*A-ACTUAL VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PESTICIDES/PCB'S DATA REPORT

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*** * * * *
** PROJECT NO. 89-537   SAMPLE NO. 39781   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: 5D-03   COLLECTION START: 09/12/89   1440   STOP: 00/00/00   **
** CASE NUMBER: 12698   SAS NUMBER: 4921D   D. NUMBER: P242   **
** * * * * *
  
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UG/KG ANALYTICAL RESULTS

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15U ALPHA-BHC
15U BETA-BHC
15U DELTA-BHC
15U GAMMA-BHC (LINDANE)
15U HEPTACHLOR
15U ALDRIN
15U HEPTACHLOR EPOXIDE
15U ENDOSULFAN I (ALPHA)
31U DIELDRIN
31U 4,4'-DDE (P,P'-DDE)
31U ENDRIN
31U ENDOSULFAN II (BETA)
31U 4,4'-DDD (P,P'-DDD)
31U ENDOSULFAN SULFATE
31U 4,4'-DDT (P,P'-DDT)
  
```

UG/KG ANALYTICAL RESULTS

```

150U METHOXYCHLOR
31U ENDRIN KETONE
-- CHLORDANE (TECH. MIXTURE) /1
150U GAMMA-CHLORDANE /2
150U ALPHA-CHLORDANE /2
310U TOXAPHENE
150U PCB-1016 (AROCLOR 1016)
150U PCB-1221 (AROCLOR 1221)
150U PCB-1232 (AROCLOR 1232)
150U PCB-1242 (AROCLOR 1242)
150U PCB-1248 (AROCLOR 1248)
310U PCB-1254 (AROCLOR 1254)
310U PCB-1260 (AROCLOR 1260)
48 PERCENT MOISTURE
  
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REMARKS

REMARKS

FOOTNOTES

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*A-AVERAGE VALUE   *NA-NOT ANALYZED   *NAI-INTERFERENCES   *J-ESTIMATED VALUE   *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN   *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*C-CONFIRMED BY GCMS   1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
  
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10/12/89

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*** PROJECT DATA REPORT ***
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** PROJECT NO.	89-537	SAMPLE NO.	39782	SAMPLE TYPE:	SOIL	PROG ELEM:	NSF	COLLECTED BY:	G CARTON
** SOURCE:	LATEX CONSTRUCTION	CITY:	SAVANNAH	ST:	GA				
** STATION ID:	SD-04	COLLECTION START:	09/12/89	1510	STOP:	00/00/00			
** CASE NUMBER:	12698	SAS NUMBER:	4921D	D. NUMBER:	P243				

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PESTICIDES/PCB'S DATA REPORT

 ** PROJECT NO. 89-537 SAMPLE NO. 39783 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
 ** SOURCE: LAIEX CONSTRUCTION CITY: SAVANNAH ST: GA **
 ** STATION ID: SD-05 COLLECTION START: 09/12/89 1550 STOP: 00/00/00 **
 ** CASE NUMBER: 12698 SAS NUMBER: 4921D D. NUMBER: P244 **
 ** ** ** **

UG/KG ANALYTICAL RESULTS

16U ALPHA-BHC
 16U BETA-BHC
 16U DELTA-BHC
 16U GAMMA-BHC (LINDANE)
 16U HEPTACHLOR
 16U ALDRIN
 16U HEPTACHLOR EPOXIDE
 16U ENDOSULFAN I (ALPHA)
 32U DIELDRIN
 32U 4,4'-DDE (P,P'-DDE)
 32U ENDRIN
 32U ENDOSULFAN II (BETA)
 32U 4,4'-DDD (P,P'-DDD)
 32U ENDOSULFAN SULFATE
 32U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

160U METHOXYCHLOR
 32U ENDRIN KETONE
 -- CHLORDANE (TECH. MIXTURE) /1
 160U GAMMA-CHLORDANE /2
 160U ALPHA-CHLORDANE /2
 320U TOXAPHENE
 160U PCB-1016 (AROCLOR 1016)
 160U PCB-1221 (AROCLOR 1221)
 160U PCB-1232 (AROCLOR 1232)
 160U PCB-1242 (AROCLOR 1242)
 160U PCB-1248 (AROCLOR 1248)
 320U PCB-1254 (AROCLOR 1254)
 320U PCB-1260 (AROCLOR 1260)
 50 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

PESTICIDES/PCB'S DATA REPORT

*** ** * PROJECT NO. 89-537 SAMPLE NO. 39784 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-06 COLLECTION START: 09/12/89 1610 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D D. NUMBER: P245 **
*** ** *

UG/KG ANALYTICAL RESULTS

17U ALPHA-BHC
17U BETA-BHC
17U DELTA-BHC
17U GAMMA-BHC (LINDANE)
17U HEPTACHLOR
17U ALDRIN
17U HEPTACHLOR EPOXIDE
17U ENDOSULFAN I (ALPHA)
33U DIELDRIN
33U 4,4'-DDE (P,P'-DDE)
33U ENDRIN
33U ENDOSULFAN II (BETA)
33U 4,4'-DDD (P,P'-DDD)
33U ENDOSULFAN SULFATE
33U 4,4'-DDT (P,P'-DDT)

2461E

2461E

UG/KG ANALYTICAL RESULTS

170U METHOXYCHLOR
33U ENDRIN KETONE
CHLORDANE (TECH. MIXTURE) /1
170U GAMMA-CHI ORDANE /2
170U ALPHA-CHLORDANE /2
330U TOXAPHENE
170U PCB-1016 (AROCLOR 1016)
170U PCB-1221 (AROCLOR 1221)
170U PCB-1232 (AROCLOR 1232)
170U PCB-1242 (AROCLOR 1242)
170U PCB-1248 (AROCLOR 1248)
330U PCB-1254 (AROCLOR 1254)
330U PCB-1260 (AROCLOR 1260)
52 PERCENT MOISTURE

REMARKS

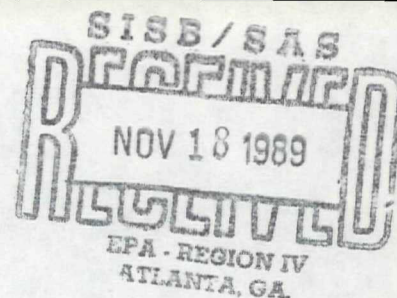
REMARKS

FOOTNOTES

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 11/02/89

SUBJECT: Results of Metals Analysis;
89-537 LATEX CONSTRUCTION
SAVANNAH GA
CASE NO: 12698SAS NO: 49210

← File

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

CC: Al Horne

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39768 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-01 COLLECTION START: 09/11/89 1245 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: N367 **

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
5800	ALUMINUM	74J	MANGANESE
20U	ANTIMONY	0.11U	MERCURY
1UJ	ARSENIC	4.5U	NICKEL
26	BARIUM	150	POTASSIUM
0.45U	BERYLLIUM	0.45U	SELENIUM
0.68U	CADMIUM	1.4UR	SILVER
1700J	CALCIUM	290U	SODIUM
2UJ	CHROMIUM	0.45UR	THALLIUM
2.7U	COBALT	NA	TIN
7U	COPPER	2.5U	VANADIUM
2800J	IRON	14	ZINC
22	LEAD	12	PERCENT MOISTURE
280	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39769 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA
** STATION ID: S6-01 COLLECTION START: 09/11/89 1255 STOP: 00/00/00
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: N368
**

MG/KG ANALYTICAL RESULTS		MG/KG ANALYTICAL RESULTS	
5300	ALUMINUM	160	MANGANESE
300	ANTIMONY	0.130	MERCURY
0.530J	ARSENIC	5.30	NICKEL
10	BARIUM	1500	POTASSIUM
0.530	BERYLLIUM	0.530	SELENIUM
0.790	CADMIUM	1.60R	SILVER
880J	CALCIUM	3400	SODIUM
5J	CHROMIUM	0.530R	THALLIUM
40	COBALT	NA	TIN
40	COPPER	4.5	VANADIUM
910J	IRON	7	ZINC
70	LEAD	24	PERCENT MOISTURE
140	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39770 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: 55-02 COLLECTION START: 09/11/89 1410 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: N369 **
**

MG/KG ANALYTICAL RESULTS		MG/KG ANALYTICAL RESULTS	
7700	ALUMINUM	88J	MANGANESE
7.8U	ANTIMONY	0.13	MERCURY
3.1J	ARSENIC	4.5U	NICKEL
58	BARIUM	790	POTASSIUM
0.45U	BERYLLIUM	0.45U	SELENIUM
0.67U	CADMIUM	1.3UR	SILVER
3700J	CALCIUM	290U	SODIUM
33J	CHROMIUM	0.45UR	THALLIUM
8.5	COBALT	NA	TIN
150	COPPER	12	VANADIUM
12000J	IRON	410	ZINC
190	LEAD	10	PERCENT MOISTURE
850	MAGNESTUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39771 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-02 COLLECTION START: 09/11/89 1445 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: N370 **

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
33000	ALUMINUM	220J	MANGANESE
20U	ANTIMONY	0.17U	MERCURY
70J	ARSENIC	6.8U	NICKEL
37	BARIUM	2300	POTASSIUM
0.68U	BERYLLIUM	0.68U	SELENIUM
3U	CADMIUM	2UR	SILVER
27000J	CALCIUM	830	SODIUM
49J	CHROMIUM	0.68UR	THALLIUM
11	COBALT	NA	TIN
20U	COPPER	63	VANADIUM
22000J	IRON	56	ZINC
13	LEAD	41	PERCENT MOISTURE
8300	MAGNESTUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39772 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-03 COLLECTION START: 09/11/89 1605 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: N371 **

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
3100	ALUMINUM	11J	MANGANESE
7.8U	ANTIMONY	0.11U	MERCURY
0.450J	ARSENIC	4.5U	NICKEL
7U	BARIUM	120U	POTASSIUM
0.45U	BERYLLIUM	0.45U	SELENIUM
0.67U	CADMIUM	1.3UR	SILVER
450J	CALCIUM	290U	SODIUM
2.4J	CHROMIUM	0.45UR	THALLIUM
4U	COBALT	NA	TIN
30U	COPPER	3.8	VANADIUM
760J	IRON	25	ZINC
14	LEAD	10	PERCENT MOISTURE
130U	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39773 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-03 COLLECTION START: 09/11/89 1615 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: N372 **
**

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
20000	ALUMINUM	180J	MANGANESE
20U	ANTIMONY	0.15U	MERCURY
8.8J	ARSENIC	6.1U	NICKEL
64	BARIUM	1900	POTASSIUM
0.61U	BERYLLIUM	0.61U	SELENIUM
5.8	CADMIUM	1.8UR	SILVER
4900J	CALCIUM	2200	SODIUM
39J	CHROMIUM	0.61UR	THALLIUM
11	COBALT	NA	TIN
460	COPPER	40	VANADIUM
24000J	IRON	630	ZINC
95	LEAD	35	PERCENT MOISTURE
2400	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 : SAMPLE NO. 39774 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-04 COLLECTION START: 09/11/89 1715 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: N373 **

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
1700	ALUMINUM	24J	MANGANESE
40U	ANTIMONY	0.12U	MERCURY
20J	ARSENIC	4.8U	NICKEL
7U	BARIUM	210	POTASSIUM
0.48U	BERYLLIUM	0.48U	SELENIUM
0.72U	CADMIUM	1.4UR	SILVER
3700J	CALCIUM	310U	SODIUM
5.2J	CHROMIUM	0.48UR	THALLIUM
2.9U	COBALT	NA	TIN
30U	COPPER	2.7U	VANADIUM
2700J	IRON	110	ZINC
18	LEAD	17	PERCENT MOISTURE
240	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

 ** PROJECT NO. 89-537 SAMPLE NO. 39775 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
 ** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
 ** STATION ID: SB-04 COLLECTION START: 09/11/89 1735 STOP: 00/00/00 **
 ** CASE NUMBER: 12698 GAS NUMBER: 4921D MD NUMBER: Q236 **
 ** ** ** **

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
11000	ALUMINUM	83J	MANGANESE
100	ANTIMONY	0.14U	MERCURY
30J	ARSENIC	5.7U	NICKEL
17	BARIUM	1000	POTASSIUM
10	BERYLLIUM	0.57U	SELENIUM
2.7	CADMIUM	1.7UR	SILVER
3700J	CALCIUM	410	SODIUM
18J	CHROMIUM	0.57UR	THALLIUM
5.8	COBALT	NA	TIN
48	COPPER	26	VANADIUM
9500J	IRON	58	ZINC
14	LEAD	30	PERCENT MOISTURE
1500	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

*** ** ** ** ** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39776 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-05 COLLECTION START: 09/12/89 0845 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: Q237 **
** ** ** ** **

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
7600	ALUMINUM	560J	MANGANESE
7.5U	ANTIMONY	1.2	MERCURY
3J	ARSENIC	230	NICKEL
100	BARIUM	990	POTASSIUM
2.8	BERYLLIUM	0.43U	SELENIUM
14	CADMIUM	1.3UR	SILVER
8600J	CALCIUM	510	SODIUM
97J	CHROMIUM	0.43UR	THALLIUM
30	COBALT	NA	TIN
1700	COPPER	16	VANADIUM
36000J	IRON	2600	ZINC
1500	LEAD	06	PERCENT MOISTURE
1300	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39777 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-06 COLLECTION START: 09/12/89 0950 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: Q238 **
**

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
8000	ALUMINUM	270J	MANGANESE
20U	ANTIMONY	0.11U	MERCURY
3.5J	ARSENIC	190	NICKEL
130	BARIUM	1000	POTASSIUM
2.9	BERYLLIUM	0.45U	SELENIUM
13	CADMIUM	1.3UR	SILVER
6800J	CALCIUM	490	SODIUM
91J	CHROMIUM	0.45UR	THALLIUM
19	COBALT	NA	TIN
1300	COPPER	18	VANADIUM
33000J	IRON	2140	ZINC
770	LEAD	10	PERCENT MOISTURE
1100	MAGNESTUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39778 SAMPLE TYPE: SOIL PROG ELEM.: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-05 COLLECTION START: 09/12/89 1005 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: Q239 **
**

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
8200	ALUMINUM	80J	MANGANESE
9.1U	ANTIMONY	0.18	MERCURY
14J	ARSENIC	20U	NICKEL
14	BARIUM	110	POTASSIUM
0.52U	BERYLLIUM	1U	SELENIUM
2.6	CADMIUM	1.6UR	SILVER
9700J	CALCIUM	350	SODIUM
13J	CHROMIUM	0.52UR	THALLIUM
3.1U	COBALT	NA	TIN
20U	COPPER	19	VANADIUM
6400J	IRON	21	ZINC
17	LEAD	23	PERCENT MOISTURE
960	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39779 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH SI: GA **
** STATION ID: SD-01 COLLECTION START: 09/12/89 1300 STOP: 00/00/00. **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: Q240 **
**

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
10000	ALUMINUM	76J	MANGANESE
20H	ANTIMONY	0.16U	MERCURY
3.9J	ARSENIC	20U	NICKEL
13	BARIUM	750	POTASSIUM
0.65U	BERYLLIUM	0.65U	SELENIUM
0.98U	CADMIUM	2UR	SILVER
6400J	CALCIUM	4300	SODIUM
19J	CHROMIUM	0.65UR	THALLIUM
3.9U	COBALT	NA	TIN
30U	COPPER	27	VANADIUM
10000J	IRON	32	ZINC
10	LEAD	39	PERCENT MOISTURE
1900	MAGNESTUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39780 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-02 COLLECTION START: 09/12/89 1335 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: Q241 **
**

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
52000	ALUMINUM	310J	MANGANESE
30U	ANTIMONY	0.37U	MERCURY
19J	ARSENIC	60U	NICKEL
54	BARIUM	4200	POTASSIUM
3U	BERYLLIUM	1.5U	SELENIUM
14	CADMIUM	4.4UR	SILVER
3400J	CALCIUM	22000	SODIUM
76J	CHROMIUM	1.5UR	THALLIUM
21	COBALT	NA	TIN
34	COPPER	110	VANADIUM
41000J	IRON	97	ZINC
34	LEAD	73	PERCENT MOISTURE
8600	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39781 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-03 COLLECTION START: 09/12/89 1440 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: Q242 **

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
2200	ALUMINUM	22J	MANGANESE
90J	ANTIMONY	0.13U	MERCURY
20J	ARSENIC	5.2U	NICKEL
6.5U	BARIUM	240	POTASSIUM
0.52U	BERYLLIUM	0.52U	SELENIUM
0.78U	CADMIUM	1.6UR	SILVER
7000J	CALCIUM	2000	SODIUM
4.6J	CHROMIUM	0.52UR	THALLIUM
3.1U	COBALT	NA	TIN
4U	COPPER	8.6	VANADIUM
2200J	IRON	5U	ZINC
3.9	LEAD	23	PERCENT MOISTURE
590	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39782 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G. CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-04 COLLECTION START: 09/12/89 1510 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: Q243 **
**

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
23000	ALUMINUM	160J	MANGANESE
200	ANTIMONY	0.16U	MERCURY
5.5J	ARSENIC	0.4U	NICKEL
28	BARIUM	2300	POTASSIUM
10	BERYLLIUM	0.64U	SELENIUM
0.96U	CADMIUM	1.0UR	SILVER
10000J	CALCIUM	4600	SODIUM
33J	CHROMIUM	0.64UR	THALLIUM
8.9	COBALT	NA	TIN
6.3	COPPER	45	VANADIUM
19000J	IRON	60	ZINC
9.9	LEAD	38	PERCENT MOISTURE
4800	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39783 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-05 COLLECTION START: 09/12/89 1550 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: Q244 **

MG/KG ANALYTICAL RESULTS		MG/KG ANALYTICAL RESULTS	
26000	ALUMINUM	170J	MANGANESE
13H	ANTIMONY	0.19U	MERCURY
7.9J	ARSENIC	74	NICKEL
100	BARIUM	3600	POTASSIUM
2.5	BERYLLIUM	0.74U	SELENIUM
17	CADMIUM	2.2UR	SILVER
3400J	CALCIUM	12000	SODIUM
54J	CHROMIUM	0.74UR	THALLIUM
14	COBALT	NA	TIN
410	COPPER	56	VANADIUM
27000J	IRON	940	ZINC
510	LEAD	46	PERCENT MOISTURE
3700	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

MEIALS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39784 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-06 COLLECTION START: 09/12/89 1610 STOP: 00/00/00 **
** CASE NUMBER: 12698 SAS NUMBER: 4921D MD NUMBER: Q245 **

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
23000	ALUMINUM	93J	MANGANESE
30U	ANTIMONY	0.21U	MERCURY
0.82UJ	ARSENIC	30U	NICKEL
23	BARIUM	3100	POTASSIUM
1U	BERYLLIUM	0.82U	SELENIUM
13	CADMIUM	2.5UR	SILVER
9400J	CALCIUM	13000	SODIUM
30J	CHROMIUM	0.82UR	THALLIUM
13	COBALT	NA	TIN
29	COPPER	50	VANADIUM
19000J	IRON	55	ZINC
44	LEAD	51	PERCENT MOISTURE
3800	MAGNESIUM		

REMARKS

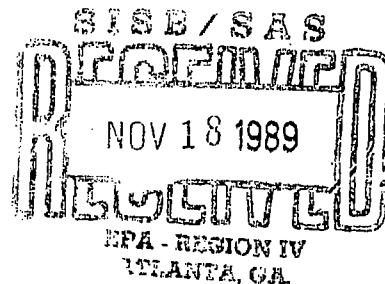
REMARKS

FOOTNOTES

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 11/02/89

SUBJECT: Results of Cyanide Analysis;
89-537 LATEX CONSTRUCTION
SAVANNAH GA
CASE NO: 12698SAS NO: 4921D

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

11/01/89

```

** PROJECT NO. 89-537    SAMPLE NO. 39768    SAMPLE TYPE: SOIL    PROG FILE: NSF    COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION    CITY: SAVANNAH    ST: GA
** STATION ID: SS-01    COLLECTION START: 09/11/89    1245    STOP: 00/00/00
** CASE NO.: 12698    SAS NO.: 4921D    D. NO.: N367    MD NO: N367

```

RESULTS	UNITS	PARAMETER
1.10	MG/KG	CYANIDE

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT

```
*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39769 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-01 COLLECTION START: 09/11/89 1255 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N368 MD NO: N368 **
** ** ** **
```

RESULTS UNITS PARAMETER
1.3U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT

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*** ****  
** PROJECT NO. 89-537 SAMPLE NO. 39770 SAMPLE TYPE. SOIL PROG FILEM: NSF COLLECTED BY: G CARTON **  
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **  
** STATION ID: SS-02 COLLECTION START: 09/11/89 1410 STOP: 00/00/00 **  
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N369 MD NO: N369 **  
** ****
```

RESULTS UNITS PARAMETER
1.1U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

11/01/89

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** PROJECT NO. 89-537 SAMPLE NO. 39771 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA
** STATION ID: SB-02 COLLECTION START: 09/11/89 1445 STOP: 00/00/00
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N370 MD NO: N370

```

RESULTS	UNITS	PARAMETER
1.70	MG/KG	CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT

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*** ****  
** PROJECT NO. 89-537 SAMPLE NO. 30772 SAMPLE TYPE. SOIL PROG FILE: NSF COLLECTED BY: G CARTON **  
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **  
** STATION ID: SS-03 COLLECTION START: 09/11/89 1605 STOP: 00/00/00 **  
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N371 MD NO: N371 **  
** ****
```

RESULTS UNITS PARAMETER
1.10 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT

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***+*****+*****+*****+*****+*****+*****+*****+*****+*****+***
** PROJECT NO. 89-537   SAMPLE NO. 39773   SAMPLE TYPE: SOIL   PROG FILE: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SB-03   COLLECTION START: 09/11/89 1615   STOP: 00/00/00   **
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: N372   MD NO: N372   **
**+*****+*****+*****+*****+*****+*****+*****+*****+*****+*****+***
```

RESULTS UNITS PARAMETER
1.5U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39774 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-04 COLLECTION START: 09/11/89 1715 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N373 MD NO: N373 **
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RESULTS UNITS PARAMETER
1.2U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT!

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*** ** ** ** **
**  PROJECT NO. 89-537  SAMPLE NO. 39775  SAMPLE TYPE: SOIL  PROG FILE: NSF  COLLECTED BY: G CARTON  **
**  SOURCE: LATEX CONSTRUCTION  CITY: SAVANNAH  ST: GA  **
**  STATION ID: SB-04  COLLECTION START: 09/11/89  1735  STOP: 00/00/00  **
**  CASE NO.: 12698  SAS NO.: 4921D  D. NO.: P236  MD NO: Q236  **
**  *** ** ** *****
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RESULTS UNITS PARAMETER
1.4U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

11/01/89

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** PROJECT NO. 89-537 SAMPLE NO. 39776 SAMPLE TYPE: SOIL PROG FILE# NSF COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA
** STATION ID: SS-05 COLLECTION START: 09/12/89 0845 STOP: 00/00/00
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P237 MD NO: Q237

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RESULTS	UNITS	PARAMETER
1.1U	MG/KG	CYANIDE

FOOTNOTES

FOOTNOTES***
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

11/01/89

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** PROJECT NO. 89-537 SAMPLE NO. 39777 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-06 COLLECTION START: 09/12/89 0950 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P238 MD NO: Q238 **
**

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RESULTS	UNITS	PARAMETER
1.1U	MG/KG	CYANIDE

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

11/01/89

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** PROJECT NO. 89-537 SAMPLE NO. 30778 SAMPLE TYPE: SOIL PROG FLEM: NSF COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA
** STATION ID: SB-05 COLLECTION START: 09/12/89 1005 STOP: 00/00/00
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P239 MD NO: Q239
**

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RESULTS	UNITS	PARAMETER
1.30	MG/KG	CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT

*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39779 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-01 COLLECTION START: 09/12/89 1300 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P240 MD NO: Q240 **
*** * * * *

RESULTS UNITS PARAMETER
1.6U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537: SAMPLE NO. 39790 SAMPLE TYPE: SOIL   PROG FILE: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION                                CITY: SAVANNAH   ST: GA   **
** STATION ID: SD-02                                         COLLECTION START: 09/12/89 1335 STOP: 00/00/00   **
** CASE NO.: 12698      SAS NO.: 4921D                      D. NO.: P241   MD NO: Q241   **
** ** ** ** **
```

RESULTS UNITS PARAMETER
3.70 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSTS DATA REPORT

*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39781 SAMPLE TYPE: SOIL PROG FLEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-03 COLLECTION START: 09/12/89 1440 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P242 MD NO: Q242 **
** ** ** **

RESULTS UNITS PARAMETER
1.30 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

11/01/89

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** PROJECT NO. 89-537 SAMPLE NO. 39782 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-04 COLLECTION START: 09/12/89 1510 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P243 MD NO: Q243 **
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**

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RESULTS	UNITS	PARAMETER
1.60	MG/KG	CYANIDE

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39783 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-05 COLLECTION START: 09/12/89 1550 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P244 MD NO: Q244 **
** ** ** **
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RESULTS UNITS PARAMETER
1.00 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NA1-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/01/89

SPECIFIED ANALYSIS DATA REPORT

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*** *****
** PROJECT NO. 89-537   SAMPLE NO. 39784   SAMPLE TYPE: SOIL   PROG FILE: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SD-06   COLLECTION START: 09/12/89   1610   STOP: 00/00/00   **
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: P245   MD NO: Q245   **
**
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RESULTS UNITS PARAMETER
2.1U MG/KG CYANIDE

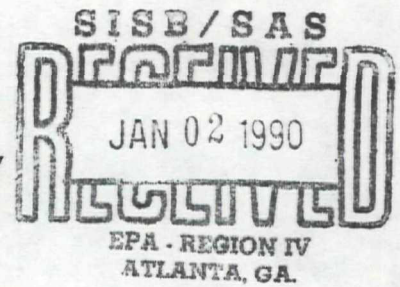
UNANALYZED
ANALYZED

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 12/14/89

SUBJECT: Results of Specified Analysis;
89-537 LATEX CONSTRUCTION
SAVANNAH GA
CASE NO: 12698SAS NO: 4921D

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

CC: Hanke

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39787 SAMPLE TYPE: SOIL PROG FILE# NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SS-01 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: 01 MD NO: **
** ** ** **

RESULTS UNITS PARAMETER
26UJ UG/KG MONOBUTYL TIN
26U UG/KG DIBUTYL TIN
26U UG/KG TRIBUTYL TIN
26UR UG/KG MONOPHENYL TIN
26UJ UG/KG DIPHENYL TIN
26U UG/KG TRIPHENYL TIN
4.2UJ MG/KG TIN
24 % % MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39788 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SB-01 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SB01 MD NO: **
**

RESULTS	UNITS	PARAMETER
25UJ	UG/KG	MONOBUTYL TIN
25U	UG/KG	DIBUTYL TIN
25U	UG/KG	TRIBUTYL TIN
25UR	UG/KG	MONOPHENYL TIN
25UJ	UG/KG	DIPHENYL TIN
25U	UG/KG	TRIPHENYL TIN
6UJ	MG/KG	TIN
19 %		% MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39789 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SS-02 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SS02 MD NO: **
** * * * * *

RESULTS UNITS PARAMETER
99JC UG/KG MONOBUTYL TIN
310C UG/KG DIBUTYL TIN
410JC UG/KG TRIBUTYL TIN
22UR UG/KG MONOPHENYL TIN
22UJ UG/KG DIPHENYL TIN
22U UG/KG TRIPHENYL TIN
11J MG/KG TIN
11 % % MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSTS DATA REPORT

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*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39790 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SB-02 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SB02 MD NO: **
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RESULTS UNITS PARAMETER
30UJ UG/KG MONOBUTYL TIN
30U UG/KG DIBUTYL TIN
35N UG/KG TRIBUTYL TIN
30UR UG/KG MONOPHENYL TIN
30UJ UG/KG DIPHENYL TIN
30U UG/KG TRIPHENYL TIN
60J MG/KG TIN
35 % % MOISTURE

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FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATIENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

 ** PROJECT NO. 89-537 SAMPLE NO. 39791 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
 ** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
 ** STATION ID: LC-SS-03 COLLECTION START: 09/11/89 STOP: 00/00/00 **
 ** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SS03 MD NO: **
 ** ** ** **

RESULTS UNITS PARAMETER
 44JC UG/KG MONOBUTYL TIN
 170C UG/KG DIBUTYL TIN
 370C UG/KG TRIBUTYL TIN
 22UR UG/KG MONOPHENYL TIN
 22UJ UG/KG DIPHENYL TIN
 22U UG/KG TRIPHENYL TIN
 5.30UJ MG/KG TIN
 10 % % MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

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*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 30792 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SB-03 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SB03 MD NO: **
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RESULTS UNITS PARAMETER
93JC UG/KG MONOBUTYL TIN
93OC UG/KG DIBUTYL TIN
97OC UG/KG TRIBUTYL TIN
31UR UG/KG MONOPHENYL TIN
31UJ UG/KG DIPHENYL TIN
31U UG/KG TRIPHENYL TIN
35J MG/KG TIN
35 % % MOISTURE

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FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSTS DATA REPORT

*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39793 SAMPLE TYPE: SOIL PROG E1FM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SS-04 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SS04 MD NO: **
*** * * * *

RESULTS UNITS PARAMETER
27UJ UG/KG MONOBUTYL TIN
33N UG/KG DIBUTYL TIN
35N UG/KG TRIBUTYL TIN
27UR UG/KG MONOPHENYL TIN
27UJ UG/KG DIPHENYL TIN
27U UG/KG TRIPHENYL TIN
7.9UJ MG/KG TIN
25 % % MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

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**  PROJECT NO. 89-537  SAMPLE NO. 39794  SAMPLE TYPE: SOIL  PROG FILE: NSF  COLLECTED BY: G CARTON  **
**  SOURCE: LATEX CONSTRUCTION  CITY: SAVANNAH  ST: GA  **
**  STATION ID: LC-SB-04  COLLECTION START: 09/11/89  STOP: 00/00/00  **
**  CASE NO.: 12698  SAS NO.: 4921D  D. NO.: SB04  MD NO:  **
**  **
***+*****+*****+*****+*****+*****+*****+*****+*****+***

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RESULTS  UNITS  PARAMETER
26UJ  UG/KG  MONOBUTYL TIN
26U  UG/KG  DIBUTYL TIN
31N  UG/KG  TRIBUTYL TIN
26UR  UG/KG  MONOPHENYL TIN
26UJ  UG/KG  DIPHENYL TIN
26U  UG/KG  TRIPHENYL TIN
19J  MG/KG  TIN
25 %  % MOISTURE

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FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSTS DATA REPORT

** PROJECT NO. 89-537 SAMPLE NO. 39795 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SS-06 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SS06 MD NO: **
**

RESULTS UNITS PARAMETER
32JC UG/KG MONOBUTYL TIN
81C UG/KG DIBUTYL TIN
93C UG/KG TRIBUTYL TIN
21UR UG/KG MONOPHENYL TIN
21UJ UG/KG DIPHENYL TIN
21U UG/KG TRIPHENYL TIN
180J MG/KG TIN
7 % % MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

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*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39796 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SB-05 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SB05 MD NO: **
**
*** * * * *

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RESULTS UNITS PARAMETER
25UJ UG/KG MONOBUTYL TIN
25U UG/KG DIBUTYL TIN
40N UG/KG TRIBUTYL TIN
25UR UG/KG MONOPHENYL TIN
25UJ UG/KG DIPHENYL TIN
25U UG/KG TRIPHENYL TIN
8.4UJ MG/KG TIN
20 % % MOISTURE

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FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39797 SAMPLE TYPE: SOIL PROG FILM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SD-01 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SD01 MD NO: **
*** * * * *

RESULTS	UNITS	PARAMETER
30UJ	UG/KG	MONOBUTYL TIN
30U	UG/KG	DIBUTYL TIN
32N	UG/KG	TRIBUTYL TIN
30UR	UG/KG	MONOPHENYL TIN
30UJ	UG/KG	DIPHENYL TIN
30U	UG/KG	TRIPHENYL TIN
90J	MG/KG	TIN
33 %		% MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39798 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SD-02 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SD02 MD NO: **
** ** ** **

RESULTS UNITS PARAMETER
65UJ UG/KG MONOBUTYL TIN
65U UG/KG DIBUTYL TIN
65U UG/KG TRIBUTYL TIN
65UR UG/KG MONOPHENYL TIN
65UJ UG/KG DIPHENYL TIN
65U UG/KG TRIPHENYL TIN
16UJ MG/KG TIN
70 % % MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

*** **
** PROJECT NO. 89-537 SAMPLE NO. 39799 SAMPLE TYPE. SOIL PROG EIFM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SD-03 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SD03 MD NO: **
** **

RESULTS UNITS PARAMETER
26UJ UG/KG MONOBUTYL TIN
26U UG/KG DIBUTYL TIN
26U UG/KG TRIBUTYL TIN
26UR UG/KG MONOPHENYL TIN
26UJ UG/KG DIPHENYL TIN
26U UG/KG TRIPHENYL TIN
6.7UJ MG/KG TIN
22 % % MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39800 SAMPLE TYPE. SCIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SD-04 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SD04 MD NO: **
** * * * * *

RESULTS	UNITS	PARAMETER
32UJ	UG/KG	MONOBUTYL TIN
32U	UG/KG	DIBUTYL TIN
80U	UG/KG	TRIBUTYL TIN
32UR	UG/KG	MONOPHENYL TIN
32UJ	UG/KG	DIPHENYL TIN
32U	UG/KG	TRIPHENYL TIN
110J	MG/KG	TIN
38 %		% MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSTS DATA REPORT

*** **
** PROJECT NO. 89-537 SAMPLE NO. 29801 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SD-05 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SD05 MD NO: **
** **
*** **

RESULTS	UNITS	PARAMETER
38UJ	UG/KG	MONOBUTYL TIN
270C	UG/KG	DIBUTYL TIN
620C	UG/KG	TRIBUTYL TIN
38UR	UG/KG	MONOPHENYL TIN
38UJ	UG/KG	DIPHENYL TIN
38U	UG/KG	TRIPHENYL TIN
90J	MG/KG	TIN
48 %		% MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/13/89

SPECIFIED ANALYSIS DATA REPORT

*** **
** PROJECT NO. 89-537 SAMPLE NO. 39802 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: LC-SD-06 COLLECTION START: 09/11/89 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: SD06 MD NO: **
** **

RESULTS UNITS PARAMETER
410J UG/KG MONOBUTYL TIN
130U UG/KG DIBUTYL TIN
41U UG/KG TRIBUTYL TIN
410R UG/KG MONOPHENYL TIN
410J UG/KG DIPHENYL TIN
41U UG/KG TRIPHENYL TIN
130J MG/KG TIN
52 % % MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39768   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SS-01   COLLECTION START: 09/11/89   1245   STOP: 00/00/00   **
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** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: N367   **
*** ** ** ** *
UG/KG   ANALYTICAL RESULTS   UG/KG   ANALYTICAL RESULTS

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370U PHENOL
370U BIS(2-CHLOROETHYL) ETHER
370U 2-CHLOROPHENOL
370U 1,3-DICHLOROBENZENE
370U 1,4-DICHLOROBENZENE
370U BENZYL ALCOHOL
370U 1,2-DICHLOROBENZENE
370U 2-METHYLPHENOL
370UJ BIS(2-CHLOROISOPROPYL) ETHER
370U (3-AND/OR 4-)METHYLPHENOL
370UJ N-NITROSODI-N-PROPYLAMINE
370U HEXACHLOROETHANE
370U NITROBENZENE
370U ISOPHORONE
370U 2-NITROPHENOL
370U 2,4-DIMETHYLPHENOL
1800UJ BENZOIC ACID
370U BIS(2-CHLOROETHOXY) METHANE
370U 2,4-DICHLOROPHENOL
370U 1,2,4-TRICHLOROBENZENE
370U NAPHTHALENE
370UJ 4-CHLOROANILINE
370U HEXACHLOROBUTADIENE
370U 4-CHLORO-3-METHYLPHENOL
370U 2-METHYLNAPHTHALENE
370UJ HEXACHLOROCYCLOPENTADIENE (HCCP)
370U 2,4,6-TRICHLOROPHENOL
1800U 2,4,5-TRICHLOROPHENOL
370U 2-CHLORONAPHTHALENE
1800U 2-NITROANILINE
370U DIMETHYL PHTHALATE
370U ACENAPHTHYLENE
370U 2,6-DINITROTOLUENE

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1800UJ 3-NITROANILINE
370U ACENAPHTHENE
1800U 2,4-DINITROPHENOL
1800UJ 4-NITROPHENOL
370U DIBENZOFURAN
370U 2,4-DINITROTOLUENE
370U DIETHYL PHTHALATE
370U 4-CHLOROPHENYL PHENYL ETHER
370U FLUORENE
1800UJ 4-NITROANILINE
1800U 2-METHYL-4,6-DINITROPHENOL
370U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
370U 4-BROMOPHENYL PHENYL ETHER
370U HEXACHLOROBENZENE (HCB)
1800U PENTACHLOROPHENOL
370U PHENANTHRENE
370U ANTHRACENE
370U DI-N-BUTYLPHTHALATE
370U FLUORANTHENE
370U PYRENE
370U BENZYL BUTYL PHTHALATE
750UJ 3,3'-DICHLOROBENZIDINE
370U BENZO(A)ANTHRACENE
370U CHRYSENE
370U BIS(2-ETHYLHEXYL) PHTHALATE
370U DI-N-OCTYLPHTHALATE
370U BENZO(B AND/OR K)FLUORANTHENE
370U BENZO-A-PYRENE
370U INDENO (1,2,3-CD) PYRENE
370U DIBENZO(A,H)ANTHRACENE
370U BENZO(GHI)PERYLENE
12 PERCENT MOISTURE

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REMARKS

REMARKS

FOOTNOTES

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*A-AVERAGE VALUE   *NA-NOT ANALYZED   *NAI-INTERFERENCES   *J-ESTIMATED VALUE   *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN   *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** **
** PROJECT NO. 89-537   SAMPLE NO. 39769   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA
** STATION ID: SB-01   COLLECTION START: 09/11/89 1255   STOP: 00/00/00
**
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: N368
*** **
  
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UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
440U	PHENOL	2100UJ	3-NITROANILINE
440U	BIS(2-CHLOROETHYL) ETHER	440U	ACENAPHTHENE
440U	2-CHLOROPHENOL	2100U	2,4-DINITROPHENOL
440U	1,3-DICHLOROBENZENE	2100UJ	4-NITROPHENOL
440U	1,4-DICHLOROBENZENE	440U	DIBENZOFURAN
440U	BENZYL ALCOHOL	440U	2,4-DINITROTOLUENE
440U	1,2-DICHLOROBENZENE	440U	DIETHYL PHTHALATE
440U	2-METHYLPHENOL	440U	4-CHLOROPHENYL PHENYL ETHER
440U	BIS(2-CHLOROISOPROPYL) ETHER	440U	FLUORENE
440U	(3-AND/OR 4-)METHYLPHENOL	2100U	4-NITROANILINE
440U	N-NITROSODI-N-PROPYLAMINE	2100U	2-METHYL-4,6-DINITROPHENOL
440U	HEXACHLOROETHANE	440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	NITROBENZENE	440U	4-BROMOPHENYL PHENYL ETHER
440U	ISOPHORONE	440U	HEXACHLOROBENZENE (HCB)
440U	2-NITROPHENOL	2100U	PENTACHLOROPHENOL
440U	2,4-DIMETHYLPHENOL	440U	PHENANTHRENE
2100UJ	BENZOIC ACID	440U	ANTHRACENE
440U	BIS(2-CHLOROETHOXY) METHANE	440U	DI-N-BUTYLPHTHALATE
440U	2,4-DICHLOROPHENOL	440U	FLUORANTHENE
440U	1,2,4-TRICHLOROBENZENE	440U	PYRENE
440U	NAPHTHALENE	440U	BENZYL BUTYL PHTHALATE
440UJ	4-CHLOROANILINE	880UJ	3,3'-DICHLOROBENZIDINE
440U	HEXACHLOROBUTADIENE	440U	BENZO(A)ANTHRACENE
440U	4-CHLORO-3-METHYLPHENOL	440U	CHRYSENE
440U	2-METHYLNAPHTHALENE	440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)	440U	DI-N-OCTYLPHTHALATE
440U	2,4,6-TRICHLOROPHENOL	440U	BENZO(B AND/OR K)FLUORANTHENE
2100U	2,4,5-TRICHLOROPHENOL	440U	BENZO-A-PYRENE
440U	2-CHLORONAPHTHALENE	440U	INDENO (1,2,3-CD) PYRENE
2100U	2-NITROANILINE	440UJ	DIBENZO(A,H)ANTHRACENE
440U	DIMETHYL PHTHALATE	440U	BENZO(GHI)PERYLENE
440U	ACENAPHTHYLENE	25	PERCENT MOISTURE
440U	2,6-DINITROTOLUENE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39770 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-02 COLLECTION START: 09/11/89 1410 STOP: 00/00/00 **
** * * * * *

** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N369 **
*** * * * *
UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

370U PHENOL
370U BIS(2-CHLOROETHYL) ETHER
370U 2-CHLOROPHENOL
370U 1,3-DICHLOROBENZENE
370U 1,4-DICHLOROBENZENE
370U BENZYL ALCOHOL
370U 1,2-DICHLOROBENZENE
370U 2-METHYLPHENOL
370U BIS(2-CHLOROISOPROPYL) ETHER
370U (3-AND/OR 4-)METHYLPHENOL
370U N-NITROSODI-N-PROPYLAMINE
370U HEXACHLOROETHANE
370UJ NITROBENZENE
370U ISOPHORONE
370U 2-NITROPHENOL
370U 2,4-DIMETHYLPHENOL
1800UJ BENZOIC ACID
370U BIS(2-CHLOROETHOXY) METHANE
370U 2,4-DICHLOROPHENOL
370U 1,2,4-TRICHLOROBENZENE
370U NAPHTHALENE
370UJ 4-CHLOROANILINE
370U HEXACHLOROBUTADIENE
370U 4-CHLORO-3-METHYLPHENOL
370U 2-METHYLNAPHTHALENE
370U HEXACHLOROCYCLOPENTADIENE (HCCP)
370U 2,4,6-TRICHLOROPHENOL
1800U 2,4,5-TRICHLOROPHENOL
370U 2-CHLORONAPHTHALENE
1800UJ 2-NITROANILINE
370U DIMETHYL PHTHALATE
370U ACENAPHTHYLENE
370U 2,6-DINITROTOLUENE

1800UJ 3-NITROANILINE
370U ACENAPHTHENE
1800U 2,4-DINITROPHENOL
1800UJ 4-NITROPHENOL
370U DIBENZOFURAN
370U 2,4-DINITROTOLUENE
370U DIETHYL PHTHALATE
370U 4-CHLOROPHENYL PHENYL ETHER
370U FLUORENE
1800U 4-NITROANILINE
1800U 2-METHYL-4,6-DINITROPHENOL
370U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
370U 4-BROMOPHENYL PHENYL ETHER
370U HEXACHLOROBENZENE (HCB)
1800U PENTACHLOROPHENOL
370U PHENANTHRENE
370U ANTHRACENE
370U DI-N-BUTYLPHTHALATE
180J FLUORANTHENE
170J PYRENE
370U BENZYL BUTYL PHTHALATE
740UJ 3,3'-DICHLOROBENZIDINE
100J BENZO(A)ANTHRACENE
140J CHRYSENE
600U BIS(2-ETHYLHEXYL) PHTHALATE
370U DI-N-OCTYLPHTHALATE
210J BENZO(B AND/OR K)FLUORANTHENE
100J BENZO-A-PYRENE
53J INDENO (1,2,3-CD) PYRENE
370U DIBENZO(A,H)ANTHRACENE
59J BENZO(GHI)PERYLENE
11 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39771   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SB-02   COLLECTION START: 09/11/89   1445   STOP: 00/00/00   **
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** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: N370   **
*** ** ** ** *

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UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
610U	PHENOL	3000UJ	3-NITROANILINE
610U	BIS(2-CHLOROETHYL) ETHER	610U	ACENAPHTHENE
610U	2-CHLOROPHENOL	3000U	2,4-DINITROPHENOL
610U	1,3-DICHLOROBENZENE	3000UJ	4-NITROPHENOL
610U	1,4-DICHLOROBENZENE	610U	DIBENZOFURAN
610U	BENZYL ALCOHOL	610U	2,4-DINITROTOLUENE
610U	1,2-DICHLOROBENZENE	610U	DIETHYL PHTHALATE
610U	2-METHYLPHENOL	610U	4-CHLOROPHENYL PHENYL ETHER
610U	BIS(2-CHLOROISOPROPYL) ETHER	610U	FLUORENE
610U	(3-AND/OR 4-)METHYLPHENOL	3000U	4-NITROANILINE
610U	N-NITROSODI-N-PROPYLAMINE	3000U	2-METHYL-4,6-DINITROPHENOL
610U	HEXACHLOROETHANE	610U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
610U	NITROBENZENE	610U	4-BROMOPHENYL PHENYL ETHER
610U	ISOPHORONE	610U	HEXACHLOROBENZENE (HCB)
610U	2-NITROPHENOL	3000U	PENTACHLOROPHENOL
610U	2,4-DIMETHYLPHENOL	610U	PHENANTHRENE
3000UJ	BENZOIC ACID	610U	ANTHRACENE
610U	BIS(2-CHLOROETHOXY) METHANE	610U	DI-N-BUTYLPHTHALATE
610U	2,4-DICHLOROPHENOL	610U	FLUORANTHENE
610U	1,2,4-TRICHLOROBENZENE	89J	PYRENE
610U	NAPHTHALENE	610U	BENZYL BUTYL PHTHALATE
610UJ	4-CHLOROANILINE	1200UJ	3,3'-DICHLOROBENZIDINE
610U	HEXACHLOROBUTADIENE	610U	BENZO(A)ANTHRACENE
610U	4-CHLORO-3-METHYLPHENOL	610U	CHRYSENE
610U	2-METHYLNAPHTHALENE	610U	BIS(2-ETHYLHEXYL) PHTHALATE
610U	HEXACHLOROCYCLOPENTADIENE (HCCP)	610U	DI-N-OCTYLPHTHALATE
610U	2,4,6-TRICHLOROPHENOL	610U	BENZO(B AND/OR K)FLUORANTHENE
3000U	2,4,5-TRICHLOROPHENOL	610U	BENZO-A-PYRENE
610U	2-CHLORONAPHTHALENE	610U	INDENO (1,2,3-CD) PYRENE
3000U	2-NITROANILINE	610UJ	DIBENZO(A,H)ANTHRACENE
610U	DIMETHYL PHTHALATE	610U	BENZO(GHI)PERYLENE
610U	ACENAPHTHYLENE	46	PERCENT MOISTURE
610U	2,6-DINITROTOLUENE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

*** **
** PROJECT NO. 89-537 SAMPLE NO. 39772 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-03 COLLECTION START: 09/11/89 1605 STOP: 00/00/00 **
**

** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N371 **
*** **
UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

370U PHENOL
370U BIS(2-CHLOROETHYL) ETHER
370U 2-CHLOROPHENOL
370U 1,3-DICHLOROBENZENE
370U 1,4-DICHLOROBENZENE
370U BENZYL ALCOHOL
370U 1,2-DICHLOROBENZENE
370U 2-METHYLPHENOL
370U BIS(2-CHLOROISOPROPYL) ETHER
370U (3-AND/OR 4-)METHYLPHENOL
370U N-NITROSODI-N-PROPYLAMINE
370U HEXACHLOROETHANE
370U NITROBENZENE
370U ISOPHORONE
370U 2-NITROPHENOL
1800UJ 2,4-DIMETHYLPHENOL
370U BENZOIC ACID
370U BIS(2-CHLOROETHOXY) METHANE
370U 2,4-DICHLOROPHENOL
370U 1,2,4-TRICHLOROBENZENE
370U NAPHTHALENE
370UJ 4-CHLOROANILINE
370U HEXACHLOROBUTADIENE
370U 4-CHLORO-3-METHYLPHENOL
370U 2-METHYLNAPHTHALENE
370U HEXACHLOROCYCLOPENTADIENE (HCCP)
370U 2,4,6-TRICHLOROPHENOL
1800U 2,4,5-TRICHLOROPHENOL
370U 2-CHLORONAPHTHALENE
1800U 2-NITROANILINE
370U DIMETHYL PHTHALATE
370U ACENAPHTHYLENE
370U 2,6-DINITROTOLUENE

1800UJ 3-NITROANILINE
370U ACENAPHTHENE
1800U 2,4-DINITROPHENOL
1800UJ 4-NITROPHENOL
370U DIBENZOFURAN
370U 2,4-DINITROTOLUENE
370U DIETHYL PHTHALATE
370U 4-CHLOROPHENYL PHENYL ETHER
370U FLUORENE
1800U 4-NITROANILINE
1800U 2-METHYL-4,6-DINITROPHENOL
370U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
370U 4-BROMOPHENYL PHENYL ETHER
370U HEXACHLOROBENZENE (HCB)
1800U PENTACHLOROPHENOL
370U PHENANTHRENE
370U ANTHRACENE
370U DI-N-BUTYLPHTHALATE
110J FLUORANTHENE
370U PYRENE
370U BENZYL BUTYL PHTHALATE
730UJ 3,3'-DICHLOROBENZIDINE
51J BENZO(A)ANTHRACENE
59J CHRYSENE
370U BIS(2-ETHYLHEXYL) PHTHALATE
370U DI-N-OCTYLPHTHALATE
370U BENZO(B AND/OR K)FLUORANTHENE
43J BENZO-A-PYRENE
370U INDENO (1,2,3-CD) PYRENE
370UJ DIBENZO(A,H)ANTHRACENE
370U BENZO(GHI)PERYLENE
10 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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10/12/89

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** PROJECT NO. 89-537   SAMPLE NO. 39773   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SB-03   COLLECTION START: 09/11/89 1615   STOP: 00/00/00   **

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** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N372 **
*** UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS ***

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2900UJ 3-NITROANILINE
 300J ACENAPHTHENE
2900U 2,4-DINITROPHENOL
2900UJ 4-NITROPHENOL
 600U DIBENZOFURAN
 600U 2,4-DINITROTOLUENE
 600U DIETHYL PHTHALATE
 600U 4-CHLOROPHENYL PHENYL ETHER
 600U FLUORENE
2900U 4-NITROANILINE
2900U 2-METHYL-4,6-DINITROPHENOL
 600U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
 600U 4-BROMOPHENYL PHENYL ETHER
 600U HEXACHLOROBENZENE (HCB)
2900U PENTACHLOROPHENOL
 1600 PHENANTHRENE
 250J ANTHRACENE
 600U DI-N-BUTYL PHTHALATE
 1900 FLUORANTHENE
 2400 PYRENE
 600U BENZYL BUTYL PHTHALATE
1200UJ 3,3'-DICHLOROBENZIDINE
 930 BENZO(A)ANTHRACENE
 1200 CHRYSENE
 800U BIS(2-ETHYLHEXYL) PHTHALATE
 600U DI-N-OCTYL PHTHALATE
 680J BENZO(B AND/OR K) FLUORANTHENE
 1000 BENZO-A-PYRENE
 380J INDENO (1,2,3-CD) PYRENE
 150J DIBENZO(A,H)ANTHRACENE
 460J BENZO(GHI)PERYLENE
 45 PERCENT MOISTURE

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REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39774   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SS-04   COLLECTION START: 09/11/89   1715   STOP: 00/00/00   **
**
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: N373   **
*** ** ** ** *
UG/KG   ANALYTICAL RESULTS   UG/KG   ANALYTICAL RESULTS

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480U PHENOL
 480U BIS(2-CHLOROETHYL) ETHER
 480U 2-CHLOROPHENOL
 480U 1,3-DICHLOROBENZENE
 480U 1,4-DICHLOROBENZENE
 480U BENZYL ALCOHOL
 480U 1,2-DICHLOROBENZENE
 480U 2-METHYLPHENOL
 480U BIS(2-CHLOROISOPROPYL) ETHER
 480U (3-AND/OR 4-)METHYLPHENOL
 480U N-NITROSODI-N-PROPYLAMINE
 480U HEXACHLOROETHANE
 480U NITROBENZENE
 480U ISOPHORONE
 480U 2-NITROPHENOL
 480U 2,4-DIMETHYLPHENOL
 2300U BENZOIC ACID
 480U BIS(2-CHLOROETHOXY) METHANE
 480U 2,4-DICHLOROPHENOL
 480U 1,2,4-TRICHLOROBENZENE
 100J NAPHTHALENE
 480UJ 4-CHLOROANILINE
 480U HEXACHLOROBUTADIENE
 480U 4-CHLORO-3-METHYLPHENOL
 480U 2-METHYLNAPHTHALENE
 480U HEXACHLOROCYCLOPENTADIENE (HCCP)
 480U 2,4,6-TRICHLOROPHENOL
 2300U 2,4,5-TRICHLOROPHENOL
 480U 2-CHLORONAPHTHALENE
 2300UJ 2-NITROANILINE
 480U DIMETHYL PHTHALATE
 480U ACENAPHTHYLENE
 480U 2,6-DINITROTOLUENE

2300UJ 3-NITROANILINE
 170J ACENAPHTHENE
 2300U 2,4-DINITROPHENOL
 2300UJ 4-NITROPHENOL
 84J DIBENZOFURAN
 480U 2,4-DINITROTOLUENE
 480U DIETHYL PHTHALATE
 480U 4-CHLOROPHENYL PHENYL ETHER
 150J FLUORENE
 2300UJ 4-NITROANILINE
 2300UJ 2-METHYL-4,6-DINITROPHENOL
 480U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
 480U 4-BROMOPHENYL PHENYL ETHER
 480U HEXACHLOROBENZENE (HCB)
 2300U PENTACHLOROPHENOL
 1600 PHENANTHRENE
 360J ANTHRACENE
 480U DI-N-BUTYLPHTHALATE
 1800 FLUORANTHENE
 1300J PYRENE
 480U BENZYL BUTYL PHTHALATE
 960UJ 3,3'-DICHLOROBENZIDINE
 800 BENZO(A)ANTHRACENE
 750 CHRYSENE
 480U BIS(2-ETHYLHEXYL) PHTHALATE
 480U DI-N-OCTYLPHTHALATE
 1000J BENZO(B AND/OR K)FLUORANTHENE
 630 BENZO-A-PYRENE
 300J INDENO (1,2,3-CD) PYRENE
 480U DIBENZO(A,H)ANTHRACENE
 320J BENZO(GHI)PERYLENE
 31 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39775   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SB-04   COLLECTION START: 09/11/89   1735   STOP: 00/00/00   **
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** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: P236   **
*** ** ** ** *
UG/KG   ANALYTICAL RESULTS   UG/KG   ANALYTICAL RESULTS

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400U PHENOL
400U BIS(2-CHLOROETHYL) ETHER
400U 2-CHLOROPHENOL
400U 1,3-DICHLOROBENZENE
400U 1,4-DICHLOROBENZENE
400U BENZYL ALCOHOL
400U 1,2-DICHLOROBENZENE
400U 2-METHYLPHENOL
400U BIS(2-CHLOROISOPROPYL) ETHER
400U (3-AND/OR 4-)METHYLPHENOL
400U N-NITROSODI-N-PROPYLAMINE
400U HEXACHLOROETHANE
400U NITROBENZENE
400U ISOPHORONE
400U 2-NITROPHENOL
400U 2,4-DIMETHYLPHENOL
2000UJ BENZOIC ACID
400U BIS(2-CHLOROETHOXY) METHANE
400U 2,4-DICHLOROPHENOL
400U 1,2,4-TRICHLOROBENZENE
400U NAPHTHALENE
400UJ 4-CHLOROANILINE
400U HEXACHLOROBUTADIENE
400U 4-CHLORO-3-METHYLPHENOL
400U 2-METHYLNAPHTHALENE
400U HEXACHLOROCYCLOPENTADIENE (HCCP)
400U 2,4,6-TRICHLOROPHENOL
2000U 2,4,5-TRICHLOROPHENOL
400U 2-CHLORONAPHTHALENE
2000UJ 2-NITROANILINE
400U DIMETHYL PHTHALATE
400U ACENAPHTHYLENE
400U 2,6-DINITROTOLUENE

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2000UJ 3-NITROANILINE
400U ACENAPHTHENE
2000U 2,4-DINITROPHENOL
2000UJ 4-NITROPHENOL
400U DIBENZOFURAN
400U 2,4-DINITROTOLUENE
400U DIETHYL PHTHALATE
400U 4-CHLOROPHENYL PHENYL ETHER
400U FLUORENE
2000U 4-NITROANILINE
2000U 2-METHYL-4,6-DINITROPHENOL
400U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U 4-BROMOPHENYL PHENYL ETHER
400U HEXACHLOROBENZENE (HCB)
2000U PENTACHLOROPHENOL
400U PHENANTHRENE
400U ANTHRACENE
400U DI-N-BUTYLPHTHALATE
51J FLUORANTHENE
60J PYRENE
400U BENZYL BUTYL PHTHALATE
810UJ 3,3'-DICHLOROBENZIDINE
400U BENZO(A)ANTHRACENE
400U CHRYSENE
400U BIS(2-ETHYLHEXYL) PHTHALATE
400U DI-N-OCTYLPHTHALATE
400U BENZO(B AND/OR K)FLUORANTHENE
400U BENZO-A-PYRENE
400U INDENO (1,2,3-CD) PYRENE
400U DIBENZO(A,H)ANTHRACENE
400U BENZO(GHI)PERYLENE
18 PERCENT MOISTURE

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REMARKS

REMARKS

FOOTNOTES

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*A-AVERAGE VALUE   *NA-NOT ANALYZED   *NAI-INTERFERENCES   *J-ESTIMATED VALUE   *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39776 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-05 COLLECTION START: 09/12/89 0845 STOP: 00/00/00 **
**

** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P237 **
*** ** ** ** * UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS ***

22000U PHENOL
22000UJ BIS(2-CHLOROETHYL) ETHER
22000U 2-CHLOROPHENOL
22000U 1,3-DICHLOROBENZENE
22000U 1,4-DICHLOROBENZENE
22000U BENZYL ALCOHOL
22000U 1,2-DICHLOROBENZENE
22000UJ 2-METHYLPHENOL
22000UJ BIS(2-CHLOROISOPROPYL) ETHER
22000UJ (3-AND/OR 4-)METHYLPHENOL
22000UJ N-NITROSODI-N-PROPYLAMINE
22000UJ HEXACHLOROETHANE
22000U NITROBENZENE
22000U ISOPHORONE
22000U 2-NITROPHENOL
22000U 2,4-DIMETHYLPHENOL
110000U BENZOIC ACID
22000U BIS(2-CHLOROETHOXY) METHANE
22000U 2,4-DICHLOROPHENOL
22000U 1,2,4-TRICHLOROBENZENE
22000U NAPHTHALENE
22000U 4-CHLOROANILINE
22000U HEXACHLOROBUTADIENE
22000U 4-CHLORO-3-METHYLPHENOL
21000UJ 2-METHYLNAPHTHALENE
22000U HEXACHLOROCYCLOPENTADIENE (HCCP)
22000U 2,4,6-TRICHLOROPHENOL
110000U 2,4,5-TRICHLOROPHENOL
22000U 2-CHLORONAPHTHALENE
110000U 2-NITROANILINE
22000U DIMETHYL PHTHALATE
22000U ACENAPHTHYLENE
22000U 2,6-DINITROTOLUENE

110000UJ 3-NITROANILINE
22000U ACENAPHTHENE
110000U 2,4-DINITROPHENOL
110000UJ 4-NITROPHENOL
22000U DIBENZOFURAN
25000U 2,4-DINITROTOLUENE
22000U DIETHYL PHTHALATE
22000U 4-CHLOROPHENYL PHENYL ETHER
19000UJ FLUORENE
110000UJ 4-NITROANILINE
110000U 2-METHYL-4,6-DINITROPHENOL
22000U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
22000U 4-BROMOPHENYL PHENYL ETHER
22000UJ HEXACHLOROBENZENE (HCB)
110000U PENTACHLOROPHENOL
38000U PHENANTHRENE
22000U ANTHRACENE
22000U DI-N-BUTYLPHTHALATE
22000U FLUORANTHENE
22000U PYRENE
22000U BENZYL BUTYL PHTHALATE
44000U 3,3'-DICHLOROBENZIDINE
22000U BENZO(A)ANTHRACENE
22000U CHRYSENE
22000U BIS(2-ETHYLHEXYL) PHTHALATE
22000U DI-N-OCTYLPHTHALATE
22000U BENZO(B AND/OR K)FLUORANTHENE
22000U BENZO-A-PYRENE
22000UJ INDENO (1,2,3-CD) PYRENE
22000U DIBENZO(A,H)ANTHRACENE
22000U BENZO(GHI)PERYLENE
10 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39777   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SS-06   COLLECTION START: 09/12/89   0950   STOP: 00/00/00   **
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** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: P238   **
*** ** ** ** *
UG/KG   ANALYTICAL RESULTS   UG/KG   ANALYTICAL RESULTS

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350U PHENOL
 350U BIS(2-CHLOROETHYL) ETHER
 350U 2-CHLOROPHENOL
 350U 1,3-DICHLOROBENZENE
 350U 1,4-DICHLOROBENZENE
 350U BENZYL ALCOHOL
 350U 1,2-DICHLOROBENZENE
 350U 2-METHYLPHENOL
 350U BIS(2-CHLOROISOPROPYL) ETHER
 350U (3-AND/OR 4-)METHYLPHENOL
 350U N-NITROSODI-N-PROPYLAMINE
 350U HEXACHLOROETHANE
 350UJ NITROBENZENE
 350U ISOPHORONE
 350U 2-NITROPHENOL
 350U 2,4-DIMETHYLPHENOL
 1700UJ BENZOIC ACID
 350U BIS(2-CHLOROETHOXY) METHANE
 350U 2,4-DICHLOROPHENOL
 350U 1,2,4-TRICHLOROBENZENE
 350U NAPHTHALENE
 350UJ 4-CHLOROANILINE
 350U HEXACHLOROBUTADIENE
 350U 4-CHLORO-3-METHYLPHENOL
 350U 2-METHYLNAPHTHALENE
 350U HEXACHLOROCYCLOPENTADIENE (HCCP)
 350U 2,4,6-TRICHLOROPHENOL
 1700U 2,4,5-TRICHLOROPHENOL
 350U 2-CHLORONAPHTHALENE
 1700UJ 2-NITROANILINE
 350U DIMETHYL PHTHALATE
 350U ACENAPHTHYLENE
 350U 2,6-DINITROTOLUENE

1700UJ 3-NITROANILINE
 350U ACENAPHTHENE
 1700U 2,4-DINITROPHENOL
 1700UJ 4-NITROPHENOL
 350U DIBENZOFURAN
 350U 2,4-DINITROTOLUENE
 350U DIETHYL PHTHALATE
 350U 4-CHLOROPHENYL PHENYL ETHER
 350U FLUORENE
 1700U 4-NITROANILINE
 1700U 2-METHYL-4,6-DINITROPHENOL
 350U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
 350U 4-BROMOPHENYL PHENYL ETHER
 350U HEXACHLOROBENZENE (HCB)
 1700U PENTACHLOROPHENOL
 350U PHENANTHRENE
 39J ANTHRACENE
 350U DI-N-BUTYLPHTHALATE
 340J FLUORANTHENE
 250J PYRENE
 350U BENZYL BUTYL PHTHALATE
 700UJ 3,3'-DICHLOROBENZIDINE
 130J BENZO(A)ANTHRACENE
 170J CHRYSENE
 400U BIS(2-ETHYLHEXYL) PHTHALATE
 350U DI-N-OCTYLPHTHALATE
 130J BENZO(B AND/OR K)FLUORANTHENE
 140J BENZO-A-PYRENE
 78J INDENO (1,2,3-CD) PYRENE
 350U DIBENZO(A,H)ANTHRACENE
 84J BENZO(GHI)PERYLENE
 6 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

```

*** **
** PROJECT NO. 89-537 SAMPLE NO. 39778 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-05 COLLECTION START: 09/12/89 1005 STOP: 00/00/00 **
**
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P239 **
*** **

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UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
420U	PHENOL	2000UJ	3-NITROANILINE
420U	BIS(2-CHLOROETHYL) ETHER	420U	ACENAPHTHENE
420U	2-CHLOROPHENOL	2000U	2,4-DINITROPHENOL
420U	1,3-DICHLOROBENZENE	2000UJ	4-NITROPHENOL
420U	1,4-DICHLOROBENZENE	420U	DIBENZOFURAN
420U	BENZYL ALCOHOL	420U	2,4-DINITROTOLUENE
420U	1,2-DICHLOROBENZENE	420U	DIETHYL PHTHALATE
420U	2-METHYLPHENOL	420U	4-CHLOROPHENYL PHENYL ETHER
420U	BIS(2-CHLOROISOPROPYL) ETHER	420U	FLUORENE
420U	(3-AND/OR 4-)METHYLPHENOL	2000U	4-NITROANILINE
420U	N-NITROSODI-N-PROPYLAMINE	2000U	2-METHYL-4,6-DINITROPHENOL
420U	HEXACHLOROETHANE	420U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
420U	NITROBENZENE	420U	4-BROMOPHENYL PHENYL ETHER
420U	ISOPHORONE	420U	HEXACHLOROENZENE (HCB)
420U	2-NITROPHENOL	2000U	PENTACHLOROPHENOL
420U	2,4-DIMETHYLPHENOL	420U	PHENANTHRENE
2000UJ	BENZOIC ACID	420U	ANTHRACENE
420U	BIS(2-CHLOROETHOXY) METHANE	420U	DI-N-BUTYLPHTHALATE
420U	2,4-DICHLOROPHENOL	47J	FLUORANTHENE
420U	1,2,4-TRICHLOROBENZENE	420U	PYRENE
420U	NAPHTHALENE	420U	BENZYL BUTYL PHTHALATE
420UJ	4-CHLOROANILINE	840UJ	3,3'-DICHLOROBENZIDINE
420U	HEXACHLOROBUTADIENE	420U	BENZO(A)ANTHRACENE
420U	4-CHLORO-3-METHYLPHENOL	420U	CHRYSENE
420U	2-METHYLNAPHTHALENE	420U	BIS(2-ETHYLHEXYL) PHTHALATE
420U	HEXACHLOROCYCLOPENTADIENE (HCCP)	420U	DI-N-OCTYLPHTHALATE
420U	2,4,6-TRICHLOROPHENOL	420U	BENZO(B AND/OR K)FLUORANTHENE
2000U	2,4,5-TRICHLOROPHENOL	420U	BENZO-A-PYRENE
420U	2-CHLORONAPHTHALENE	420U	INDENO (1,2,3-CD) PYRENE
2000U	2-NITROANILINE	420UJ	DIBENZO(A,H)ANTHRACENE
420U	DIMETHYL PHTHALATE	420U	BENZO(GHI)PERYLENE
420U	ACENAPHTHYLENE	21	PERCENT MOISTURE
420U	2,6-DINITROTOLUENE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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***
** PROJECT NO. 89-537   SAMPLE NO. 39779   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA
** STATION ID: SD-01   COLLECTION START: 09/12/89   1300   STOP: 00/00/00
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** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: P240
***
UG/KG   ANALYTICAL RESULTS   UG/KG   ANALYTICAL RESULTS

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550U PHENOL
550U BIS(2-CHLOROETHYL) ETHER
550U 2-CHLOROPHENOL
550U 1,3-DICHLOROBENZENE
550U 1,4-DICHLOROBENZENE
550U BENZYL ALCOHOL
550U 1,2-DICHLOROBENZENE
550U 2-METHYLPHENOL
550U BIS(2-CHLOROISOPROPYL) ETHER
550U (3-AND/OR 4-)METHYLPHENOL
550U N-NITROSODI-N-PROPYLAMINE
550U HEXACHLOROETHANE
550U NITROBENZENE
550U ISOPHORONE
550U 2-NITROPHENOL
550U 2,4-DIMETHYLPHENOL
2700UJ BENZOIC ACID
550U BIS(2-CHLOROETHOXY) METHANE
550U 2,4-DICHLOROPHENOL
550U 1,2,4-TRICHLOROBENZENE
550U NAPHTHALENE
550UJ 4-CHLOROANILINE
550U HEXACHLOROBUTADIENE
550U 4-CHLORO-3-METHYLPHENOL
550U 2-METHYLNAPHTHALENE
550U HEXACHLOROCYCLOPENTADIENE (HCCP)
550U 2,4,6-TRICHLOROPHENOL
2700U 2,4,5-TRICHLOROPHENOL
550U 2-CHLORONAPHTHALENE
2700U 2-NITROANILINE
550U DIMETHYL PHTHALATE
550U ACENAPHTHYLENE
550U 2,6-DINITROTOLUENE

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2700UJ 3-NITROANILINE
550U ACENAPHTHENE
2700U 2,4-DINITROPHENOL
2700UJ 4-NITROPHENOL
550U DIBENZOFURAN
550U 2,4-DINITROTOLUENE
550U DIETHYL PHTHALATE
550U 4-CHLOROPHENYL PHENYL ETHER
550U FLUORENE
2700U 4-NITROANILINE
2700U 2-METHYL-4,6-DINITROPHENOL
550U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
550U 4-BROMOPHENYL PHENYL ETHER
550U HEXACHLOROBENZENE (HCB)
2700U PENTACHLOROPHENOL
550U PHENANTHRENE
550U ANTHRACENE
550U DI-N-BUTYLPHTHALATE
180J FLUORANTHENE
210J PYRENE
550U BENZYL BUTYL PHTHALATE
1100UJ 3,3'-DICHLOROBENZIDINE
110J BENZO(A)ANTHRACENE
110J CHRYSENE
550U BIS(2-ETHYLHEXYL) PHTHALATE
550U DI-N-OCTYLPHTHALATE
140J BENZO(B AND/OR K)FLUORANTHENE
550U BENZO-A-PYRENE
550U INDENO (1,2,3-CD) PYRENE
550UJ DIBENZO(A,H)ANTHRACENE
550U BENZO(GHI)PERYLENE
40 PERCENT MOISTURE

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REMARKS

REMARKS

FOOTNOTES

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*A-AVERAGE VALUE   *NA-NOT ANALYZED   *NAI-INTERFERENCES   *J-ESTIMATED VALUE   *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN   *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

*** ** * PROJECT NO. 89-537 SAMPLE NO. 39780 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
 ** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
 ** STATION ID: SD-02 COLLECTION START: 09/12/89 1335 STOP: 00/00/00 **
 ** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P241 **

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
1200U	PHENOL	5900UJ	3-NITROANILINE
1200U	BIS(2-CHLOROETHYL) ETHER	1200U	ACENAPHTHENE
1200U	2-CHLOROPHENOL	5900U	2,4-DINITROPHENOL
1200U	1,3-DICHLOROBENZENE	5900UJ	4-NITROPHENOL
1200U	1,4-DICHLOROBENZENE	1200U	DIBENZOFURAN
1200U	BENZYL ALCOHOL	1200U	2,4-DINITROTOLUENE
1200U	1,2-DICHLOROBENZENE	1200U	DIETHYL PHTHALATE
1200U	2-METHYLPHENOL	1200U	4-CHLOROPHENYL PHENYL ETHER
1200U	BIS(2-CHLOROISOPROPYL) ETHER	1200U	FLUORENE
1200U	(3-AND/OR 4-)METHYLPHENOL	5900U	4-NITROANILINE
1200U	N-NITROSODI-N-PROPYLAMINE	5900U	2-METHYL-4,6-DINITROPHENOL
1200U	HEXACHLOROETHANE	1200U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1200UJ	NITROBENZENE	1200U	4-BROMOPHENYL PHENYL ETHER
1200U	ISOPHORONE	1200U	HEXACHLOROENZENE (HCB)
1200U	2-NITROPHENOL	5900U	PENTACHLOROPHENOL
1200U	2,4-DIMETHYLPHENOL	1200U	PHENANTHRENE
5900UJ	BENZOIC ACID	1200U	ANTHRACENE
1200U	BIS(2-CHLOROETHOXY) METHANE	1200U	DI-N-BUTYLPHTHALATE
1200U	2,4-DICHLOROPHENOL	1200U	FLUORANTHENE
1200U	1,2,4-TRICHLOROBENZENE	1200U	PYRENE
1200U	NAPHTHALENE	1200U	BENZYL BUTYL PHTHALATE
1200UJ	4-CHLOROANILINE	2400UJ	3,3'-DICHLOROBENZIDINE
1200U	HEXACHLOROBUTADIENE	1200U	BENZO(A)ANTHRACENE
1200U	4-CHLORO-3-METHYLPHENOL	1200U	CHRYSENE
1200U	2-METHYLNAPHTHALENE	1200U	BIS(2-ETHYLHEXYL) PHTHALATE
1200U	HEXACHLOROCYCLOPENTADIENE (HCCP)	1200U	DI-N-OCTYLPHTHALATE
1200U	2,4,6-TRICHLOROPHENOL	1200U	BENZO(B AND/OR K)FLUORANTHENE
5900U	2,4,5-TRICHLOROPHENOL	1200U	BENZO-A-PYRENE
1200U	2-CHLORONAPHTHALENE	1200U	INDENO (1,2,3-CD) PYRENE
5900UJ	2-NITROANILINE	1200U	DIBENZO(A,H)ANTHRACENE
1200U	DIMETHYL PHTHALATE	1200U	BENZO(GHI)PERYLENE
1200U	ACENAPHTHYLENE	73	PERCENT MOISTURE
1200U	2,6-DINITROTOLUENE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** * * * *
**  PROJECT NO. 89-537   SAMPLE NO. 39781   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
**  SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
**  STATION ID: SD-03   COLLECTION START: 09/12/89   1440   STOP: 00/00/00   **
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**  CASE NO.: 12698   SAS NO.: 4921D   D. NO.: P242   **
*** * * * *
**  UG/KG   ANALYTICAL RESULTS   UG/KG   ANALYTICAL RESULTS   **

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630U PHENOL
630U BIS(2-CHLOROETHYL) ETHER
630U 2-CHLOROPHENOL
630U 1,3-DICHLOROBENZENE
630U 1,4-DICHLOROBENZENE
630U BENZYL ALCOHOL
630U 1,2-DICHLOROBENZENE
630U 2-METHYLPHENOL
630UJ BIS(2-CHLOROISOPROPYL) ETHER
630U (3-AND/OR 4-)METHYLPHENOL
630U N-NITROSODI-N-PROPYLAMINE
630U HEXACHLOROETHANE
630U NITROBENZENE
630U ISOPHORONE
630U 2-NITROPHENOL
630U 2,4-DIMETHYLPHENOL
3100U BENZOIC ACID
630U BIS(2-CHLOROETHOXY) METHANE
630U 2,4-DICHLOROPHENOL
630U 1,2,4-TRICHLOROBENZENE
630U NAPHTHALENE
630U 4-CHLOROANILINE
630U HEXACHLOROBUTADIENE
630U 4-CHLORO-3-METHYLPHENOL
630U 2-METHYLNAPHTHALENE
630U HEXACHLOROCYCLOPENTADIENE (HCCP)
630U 2,4,6-TRICHLOROPHENOL
3100U 2,4,5-TRICHLOROPHENOL
630U 2-CHLORONAPHTHALENE
3100U 2-NITROANILINE
630U DIMETHYL PHTHALATE
630U ACENAPHTHYLENE
630U 2,6-DINITROTOLUENE

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3100U 3-NITROANILINE
630U ACENAPHTHENE
3100U 2,4-DINITROPHENOL
3100UJ 4-NITROPHENOL
630U DIBENZOFURAN
630U 2,4-DINITROTOLUENE
630U DIETHYL PHTHALATE
630U 4-CHLOROPHENYL PHENYL ETHER
630U FLUORENE
3100U 4-NITROANILINE
3100U 2-METHYL-4,6-DINITROPHENOL
630U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
630U 4-BROMOPHENYL PHENYL ETHER
630U HEXACHLOROBENZENE (HCB)
3100U PENTACHLOROPHENOL
630U PHENANTHRENE
630U ANTHRACENE
630U DI-N-BUTYLPHTHALATE
630U FLUORANTHENE
630U PYRENE
630U BENZYL BUTYL PHTHALATE
1300UJ 3,3'-DICHLOROBENZIDINE
630U BENZO(A)ANTHRACENE
630U CHRYSENE
630U BIS(2-ETHYLHEXYL) PHTHALATE
630U DI-N-OCTYLPHTHALATE
630UJ BENZO(B AND/OR K)FLUORANTHENE
630U BENZO-A-PYRENE
630U INDENO (1,2,3-CD) PYRENE
630U DIBENZO(A,H)ANTHRACENE
630U BENZO(GHI)PERYLENE
48 PERCENT MOISTURE

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REMARKS

REMARKS

FOOTNOTES

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*A-AVERAGE VALUE   *NA-NOT ANALYZED   *NAI-INTERFERENCES   *J-ESTIMATED VALUE   *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN   *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39782 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-04 COLLECTION START: 09/12/89 1510 STOP: 00/00/00 **
**
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P243 **
*** * * * *
  
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UG/KG ANALYTICAL RESULTS

520U PHENOL
 520U BIS(2-CHLOROETHYL) ETHER
 520U 2-CHLOROPHENOL
 520U 1,3-DICHLOROBENZENE
 520U 1,4-DICHLOROBENZENE
 520U BENZYL ALCOHOL
 520U 1,2-DICHLOROBENZENE
 520U 2-METHYLPHENOL
 520UJ BIS(2-CHLOROISOPROPYL) ETHER
 520U (3-AND/OR 4-)METHYLPHENOL
 520U N-NITROSODI-N-PROPYLAMINE
 520U HEXACHLOROETHANE
 520U NITROBENZENE
 520U ISOPHORONE
 520U 2-NITROPHENOL
 520U 2,4-DIMETHYLPHENOL
 2500U BENZOIC ACID
 520U BIS(2-CHLOROETHOXY) METHANE
 520U 2,4-DICHLOROPHENOL
 520U 1,2,4-TRICHLOROBENZENE
 520U NAPHTHALENE
 520U 4-CHLOROANILINE
 520U HEXACHLOROBUTADIENE
 520U 4-CHLORO-3-METHYLPHENOL
 520U 2-METHYLNAPHTHALENE
 520U HEXACHLOROCYCLOPENTADIENE (HCCP)
 520U 2,4,6-TRICHLOROPHENOL
 2500U 2,4,5-TRICHLOROPHENOL
 520U 2-CHLORONAPHTHALENE
 2500U 2-NITROANILINE
 520U DIMETHYL PHTHALATE
 520U ACENAPHTHYLENE
 520U 2,6-DINITROTOLUENE

UG/KG ANALYTICAL RESULTS

2500U 3-NITROANILINE
 520U ACENAPHTHENE
 2500U 2,4-DINITROPHENOL
 2500UJ 4-NITROPHENOL
 520U DIBENZOFURAN
 520U 2,4-DINITROTOLUENE
 520U DIETHYL PHTHALATE
 520U 4-CHLOROPHENYL PHENYL ETHER
 520U FLUORENE
 2500U 4-NITROANILINE
 2500U 2-METHYL-4,6-DINITROPHENOL
 520U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
 520U 4-BROMOPHENYL PHENYL ETHER
 520U HEXACHLOROBENZENE (HCB)
 2500U PENTACHLOROPHENOL
 520U PHENANTHRENE
 520U ANTHRACENE
 520U DI-N-BUTYLPHTHALATE
 520U FLUORANTHENE
 520U PYRENE
 520U BENZYL BUTYL PHTHALATE
 1000UJ 3,3'-DICHLOROBENZIDINE
 520U BENZO(A)ANTHRACENE
 520U CHRYSENE
 520U BIS(2-ETHYLHEXYL) PHTHALATE
 520U DI-N-OCTYLPHTHALATE
 520UJ BENZO(B AND/OR K)FLUORANTHENE
 520U BENZO-A-PYRENE
 520U INDENO (1,2,3-CD) PYRENE
 520U DIBENZO(A,H)ANTHRACENE
 520U BENZO(GHI)PERYLENE
 37 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** **
** PROJECT NO. 89-537   SAMPLE NO. 39783   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SD-05   COLLECTION START: 09/12/89   1550   STOP: 00/00/00   **
**
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: P244   **
*** **
  
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UG/KG ANALYTICAL RESULTS	UG/KG ANALYTICAL RESULTS
660U PHENOL	3200U 3-NITROANILINE
660U BIS(2-CHLOROETHYL) ETHER	660U ACENAPHTHENE
660U 2-CHLOROPHENOL	3200U 2,4-DINITROPHENOL
660U 1,3-DICHLOROBENZENE	3200UJ 4-NITROPHENOL
660U 1,4-DICHLOROBENZENE	660U DIBENZOFURAN
660U BENZYL ALCOHOL	660U 2,4-DINITROTOLUENE
660U 1,2-DICHLOROBENZENE	660U DIETHYL PHTHALATE
660U 2-METHYLPHENOL	660U 4-CHLOROPHENYL PHENYL ETHER
660UJ BIS(2-CHLOROISOPROPYL) ETHER	660U FLUORENE
660U (3-AND/OR 4-)METHYLPHENOL	3200U 4-NITROANILINE
660U N-NITROSODI-N-PROPYLAMINE	3200U 2-METHYL-4,6-DINITROPHENOL
660U HEXACHLOROETHANE	660U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
660U NITROBENZENE	660U 4-BROMOPHENYL PHENYL ETHER
660U ISOPHORONE	660U HEXACHLOROBENZENE (HCB)
660U 2-NITROPHENOL	3200U PENTACHLOROPHENOL
660U 2,4-DIMETHYLPHENOL	660U PHENANTHRENE
3200U BENZOIC ACID	660U ANTHRACENE
660U BIS(2-CHLOROETHOXY) METHANE	660U DI-N-BUTYLPHTHALATE
660U 2,4-DICHLOROPHENOL	380J FLUORANTHENE
660U 1,2,4-TRICHLOROBENZENE	660U PYRENE
660U NAPHTHALENE	660U BENZYL BUTYL PHTHALATE
660U 4-CHLOROANILINE	1300UJ 3,3'-DICHLOROBENZIDINE
660U HEXACHLOROBUTADIENE	660U BENZO(A)ANTHRACENE
660U 4-CHLORO-3-METHYLPHENOL	190J CHRYSENE
660U 2-METHYLNAPHTHALENE	2000U BIS(2-ETHYLHEXYL) PHTHALATE
660U HEXACHLOROCYCLOPENTADIENE (HCCP)	660U DI-N-OCTYLPHTHALATE
660U 2,4,6-TRICHLOROPHENOL	130J BENZO(B AND/OR K)FLUORANTHENE
3200U 2,4,5-TRICHLOROPHENOL	150J BENZO-A-PYRENE
660U 2-CHLORONAPHTHALENE	660U INDENO (1,2,3-CD) PYRENE
3200U 2-NITROANILINE	660U DIBENZO(A,H)ANTHRACENE
660U DIMETHYL PHTHALATE	660U BENZO(GHI)PERYLENE
660U ACENAPHTHYLENE	50 PERCENT MOISTURE
660U 2,6-DINITROTOLUENE	

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39784   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SD-06   COLLECTION START: 09/12/89   1610   STOP: 00/00/00   **
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** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: P245   **
*** ** ** ** *
UG/KG   ANALYTICAL RESULTS   UG/KG   ANALYTICAL RESULTS

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690U PHENOL
690U BIS(2-CHLOROETHYL) ETHER
690U 2-CHLOROPHENOL
690U 1,3-DICHLOROBENZENE
690U 1,4-DICHLOROBENZENE
690U BENZYL ALCOHOL
690U 1,2-DICHLOROBENZENE
690U 2-METHYLPHENOL
690U BIS(2-CHLOROISOPROPYL) ETHER
690U (3-AND/OR 4-)METHYLPHENOL
690U N-NITROSODI-N-PROPYLAMINE
690U HEXACHLOROETHANE
690U NITROBENZENE
690U ISOPHORONE
690U 2-NITROPHENOL
690U 2,4-DIMETHYLPHENOL
3300UJ BENZOIC ACID
690U BIS(2-CHLOROETHOXY) METHANE
690U 2,4-DICHLOROPHENOL
690U 1,2,4-TRICHLOROBENZENE
690U NAPHTHALENE
690U 4-CHLOROANILINE
690U HEXACHLOROBUTADIENE
690U 4-CHLORO-3-METHYLPHENOL
690U 2-METHYLNAPHTHALENE
690U HEXACHLOROCYCLOPENTADIENE (HCCP)
690U 2,4,6-TRICHLOROPHENOL
3300U 2,4,5-TRICHLOROPHENOL
690U 2-CHLORONAPHTHALENE
3300U 2-NITROANILINE
690U DIMETHYL PHTHALATE
690U ACENAPHTHYLENE
690U 2,6-DINITROTOLUENE

3300U 3-NITROANILINE
690U ACENAPHTHENE
3300UJ 2,4-DINITROPHENOL
3300U 4-NITROPHENOL
690U DIBENZOFURAN
690U 2,4-DINITROTOLUENE
690U DIETHYL PHTHALATE
690U 4-CHLOROPHENYL PHENYL ETHER
690U FLUORENE
3300U 4-NITROANILINE
3300U 2-METHYL-4,6-DINITROPHENOL
690U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
690U 4-BROMOPHENYL PHENYL ETHER
690U HEXACHLOROBENZENE (HCB)
3300U PENTACHLOROPHENOL
690U PHENANTHRENE
690U ANTHRACENE
690U DI-N-BUTYLPHTHALATE
690U FLUORANTHENE
690U PYRENE
690U BENZYL BUTYL PHTHALATE
1400U 3,3'-DICHLOROBENZIDINE
690U BENZO(A)ANTHRACENE
74J CHRYSENE
690UJ BIS(2-ETHYLHEXYL) PHTHALATE
690U DI-N-OCTYLPHTHALATE
220J BENZO(B AND/OR K)FLUORANTHENE
87J BENZO-A-PYRENE
690U INDENO (1,2,3-CD) PYRENE
690UJ DIBENZO(A,H)ANTHRACENE
690U BENZO(GHI)PERYLENE
52 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTFM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

```
*** ** ** ** **
** PROJECT NO. 89-537   SAMPLE NO. 39768   SAMPLE TYPE. SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SS-01   COLLECTION START: 09/11/89 1245   STOP: 00/00/00   **
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: N367   MD NO: N367   **
** ** ** **
```

ANALYTICAL RESULTS UG/KG

200JN BENZENEACETIC ACID
5000J 5 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

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*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39770 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-02 COLLECTION START: 09/11/89 1410 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N369 MD NO: N369 **
**
*** * * * *

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ANALYTICAL RESULTS UG/KG

```

2000J 4 UNIDENTIFIED COMPOUNDS
800JN CHLOROTRIS(METHYLPROPYL)STANNANE
200JN ETHYLIDENE BIS(ETHYLBENZENE)
300JN BENZOPYRENE (NOT A)

```

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39771 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-02 COLLECTION START: 09/11/89 1445 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N370 MD NO: N370 **
** * * * * *

ANALYTICAL RESULTS UG/KG

500JN OXYBISETHANOL DIACETATE
4000JN ETHANEDIOL MONOACETATE
5000J 2 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

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*** * * * *
** PROJECT NO. 89-537   SAMPLE NO. 39773   SAMPLE TYPE: SOIL   PROG ELEM: NSF   COLLECTED BY: G CARTON   **
** SOURCE: LATEX CONSTRUCTION   CITY: SAVANNAH   ST: GA   **
** STATION ID: SB-03   COLLECTION START: 09/11/89   1615   STOP: 00/00/00   **
** CASE NO.: 12698   SAS NO.: 4921D   D. NO.: N372   MD NO: N372   **
** * * * * *

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ANALYTICAL RESULTS UG/KG

```

30000J 15 UNIDENTIFIED COMPOUNDS
1000JN DIMETHYLNAPHTHALENE
3000JN TRIMETHYLNAPHTHALENE
20000JN CHLOROTRIS(METHYLPROPYL)STANNANE

```

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

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*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 30774 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-04 COLLECTION START: 09/11/89 1715 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: N373 MD NO: N373 **
** * * * * *

```

ANALYTICAL RESULTS UG/KG

```

4000JN ETHANEDIOL MONOACETATE
300JN TRIBROMOPHENOL
200JN CYCLOPENTAPHENANTHRENE
300JN BENZOFLUORENE (2 ISOMERS)
400JN BENZOFLUORANTHENE (NOT B OR K)
600J 1 UNIDENTIFIED COMPOUND

```

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** * * * *
** PROJECT NO 89-537 SAMPLE NO. 30775 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-04 COLLECTION START: 09/11/89 1735 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P236 MD NO: Q236 **
** * * * * *

ANALYTICAL RESULTS UG/KG

800J 2 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

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*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 39776 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-05 COLLECTION START: 09/12/89 0845 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P237 MD NO: Q237 **
** ** ** **
```

ANALYTICAL RESULTS UG/KG

```
5000000J 17 UNIDENTIFIED COMPOUND
N PETROLEUM PRODUCT
100000JN DIMETHYLNAPHTHALENE
200000JN TRIMETHYLNAPHTHALENE
```

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** **
** PROJECT NO. 89-537 SAMPLE NO. 39777 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SS-06 COLLECTION START: 09/12/89 0950 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P238 MD NO: Q238 **
*** **

ANALYTICAL RESULTS UG/KG

300JN CHLROTRIS(METHYLPROPYL)STANNANE
400JN BENZOPYRENE (NOT A)
5000J 8 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 89778 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SB-05 COLLECTION START: 09/12/89 1005 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P239 MD NO: Q239 **
** ** ** **
*** ** ** **

ANALYTICAL RESULTS UG/KG

1000J 2 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

```
*** ** ** ** **
** PROJECT NO. 89-537 SAMPLE NO. 29779 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-01 COLLECTION START: 09/12/89 1300 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P240 MD NO: Q240 **
** ** ** **
```

ANALYTICAL RESULTS UG/KG

3000J 2 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

10/12/89

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** PROJECT NO. 89-537    SAMPLE NO. 39781    SAMPLE TYPE: SOIL    PROG FILM: NSF    COLLECTED BY: G CARTON
** SOURCE: LATEX CONSTRUCTION    CITY: SAVANNAH    ST: GA
** STATION ID: SD-03    COLLECTION START: 09/12/89    1440    STOP: 00/00/00
** CASE NO.: 12698    SAS NO.: 4921D    D. NO.: P242    MD NO: Q242
**
**

```

3000JN ETHANEDIOL MONOACETATE

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** * * * *
** PROJECT NO. 89-537 SAMPLE NO. 39783 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-05 COLLECTION START: 09/12/89 1550 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P244 MD NO: Q244 **
** * * * * *

ANALYTICAL RESULTS UG/KG

1000JN CHLOROTRIS(METHYLPROPYL)STANNANE
700J 1 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/12/89

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** **
** PROJECT NO. 89-537 SAMPLE NO. 39784 SAMPLE TYPE: SOIL PROG FILE: NSF COLLECTED BY: G CARTON **
** SOURCE: LATEX CONSTRUCTION CITY: SAVANNAH ST: GA **
** STATION ID: SD-06 COLLECTION START: 09/12/89 1610 STOP: 00/00/00 **
** CASE NO.: 12698 SAS NO.: 4921D D. NO.: P245 MD NO: Q245 **
** **

ANALYTICAL RESULTS UG/KG

2000J 2 UNIDENTIFIED COMPOUNDS

315020E

317020E

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
GA D980803696

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Latex Construction Co.		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 3126 River Road			
03 CITY Thunderbolt		04 STATE GA	05 ZIP CODE 31404	06 COUNTY Chatham	07 COUNTY CODE 08 COUNTY DIST. 09
09 COORDINATES LATITUDE 32°12'23.00"		LONGITUDE 081°02'22.00"		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN	

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 09 11 89 MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1963 Present BEGINNING YEAR ENDING YEAR
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input checked="" type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR NUS Corp <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER		

05 CHIEF INSPECTOR Geoffrey Carton	06 TITLE Project Manager	07 ORGANIZATION NUS	08 TELEPHONE NO. (404) 938-7710
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ron Young	Sampler	NUS	()
David Mattiford	Sampler	NUS	()
Gordon Buchanan	Health + Safety	NUS	()
Jerald Tittle	Sampler	NUS	()
Roger Franklin	Sampling QA	NUS	()
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Leon White	Head Safety & Security	3126 River Rd Thunderbolt, GA	(912) 351-3464
Gary Raven	Environmentalist	Trinity Industries Dallas, Texas	(214) 631-4420 Ext 409
Ruby Cherry III	Consultant for Property Owner	Westinghouse Environmental Savannah, GA	(912) 233-3443
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 0800	19 WEATHER CONDITIONS Clear ~70°F
--	-------------------------------	--------------------------------------

IV. INFORMATION AVAILABLE FROM

01 CONTACT Mario Villamarzo	02 OF (Agency Organization) EPA	03 TELEPHONE NO. () 347-5065		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Geoffrey Carton	05 AGENCY FIT4	06 ORGANIZATION NUS Corp	07 TELEPHONE NO. (404) 938-7710	08 DATE 04-05-90 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

GA D980803696

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES A SOLID B POWDER/FINES C SLUDGE D OTHER E SLURRY F LIQUID G GAS	02 WASTE QUANTITY AT SITE MASS (LBS OR KG) TONS CUBIC YARDS at least 837 NO. OF DRUMS	03 WASTE CHARACTERISTICS A TOXIC B CORROSIVE C RADIOACTIVE D PERSISTENT E SOLUBLE F INFECTIOUS G FLAMMABLE H IGNITABLE I HIGHLY VOLATILE J EXPLOSIVE K REACTIVE L INCOMPATIBLE M NOT APPLICABLE
---	---	--

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	UNKNOWN		
PSD	PESTICIDES	UNKNOWN		
OCC	OTHER ORGANIC CHEMICALS	UNKNOWN		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKNOWN		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers.)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Arsenic		Uncontained	14	ug/kg
MES	Barium		"	130	"
MES	Beryllium		"	2.9	"
MES	Cadmium		"	17	"
MES	Chromium		"	97 (estimated)	"
MES	Cobalt		"	30	"
MES	Copper		"	1700	"
MES	Lead		"	1500	"
MES	Mercury		"	1.2	"
MES	Nickel		"	230	"
MES	Vanadium		"	110	"
MES	Zinc		"	2600	"
OCC	Monobutyl tin		"	99	ug/kg
OCC	Dibutyl tin		"	930	"
OCC	Tributyl tin		"	970	"
See next page for Additional Compounds					

V. FEEDSTOCKS (See Appendix for most frequently cited CAS Numbers.)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)



01 STATE	02 SITE NUMBER
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GA

02 SITE NUMBER

GA

0980803676

IV. HAZARDOUS SUBSTANCES *(See Appendix for most frequently cited CAS Numbers)*

Continued

[illegible]



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE: GA 02 SITE NUMBER: D9E0CE03696

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☒ OBSERVED (DATE: 7/28/88) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: -0- 04 NARRATIVE DESCRIPTION

low concentrations of organic solvents detected in surficial aquifer

01 ☒ B SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: 9/89) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

contamination of sediments in Williamson Creek

01 ☒ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

sandblasting is conducted in the open the release of contaminated particulates is likely

01 ☒ D FIRE EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

None Observed

01 ☒ E DIRECT CONTACT 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

Contaminated surface soils found on site 9/89

01 ☒ F CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 9/89) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: >1 Acres 04 NARRATIVE DESCRIPTION

surface and subsurface soils contaminated with inorganic and organic compounds.

01 ☐ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

unlikely drinking water for surrounding communities is from a confined aquifer

01 ☐ H WORKER EXPOSURE INJURY 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

None observed

01 ☐ I POPULATION EXPOSURE INJURY 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

None observed



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
GA D980803696

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED

Contaminants have entered Williamson Creek + surrounding Salt Marsh

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED

See above

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED

There are recreational + commercial fisheries in adjacent waters

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, Runoff, Standing liquids, Leaking drums)

02 ☒ OBSERVED (DATE 9/11/89) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED _____

04 NARRATIVE DESCRIPTION

a number of stains were observed around property. One stain was sampled and contained high concentrations of PNA's.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED

Contamination may have entered adjacent salt marsh

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

None observed

01 ☐ P. ILLEGAL UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

None observed

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, records)

State, EPA + FIT files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
GA 09E0803696

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <small>(Check all that apply)</small>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A NPDES				
<input type="checkbox"/> B UIC				
<input checked="" type="checkbox"/> C AIR	GA09EA268615			Issued to Lockheed
<input checked="" type="checkbox"/> D RCRA	GA09E122368E			file closed " "
<input type="checkbox"/> E RCRA INTERIM STATUS				
<input type="checkbox"/> F SPCC PLAN				
<input type="checkbox"/> G STATE <small>Specify</small>				
<input type="checkbox"/> H LOCAL <small>Specify</small>				
<input type="checkbox"/> I OTHER <small>Specify</small>				
<input type="checkbox"/> J NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL <small>(Check all that apply)</small>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <small>(Check all that apply)</small>	05 OTHER
<input type="checkbox"/> A SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input checked="" type="checkbox"/> B. PILES	837	yd ³	<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/ PHYSICAL	
<input checked="" type="checkbox"/> D TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/ RECOVERY	
<input type="checkbox"/> H OPEN DUMP			<input type="checkbox"/> H. OTHER <small>(Specify)</small>	
<input type="checkbox"/> I. OTHER <small>(Specify)</small>				

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

Access from land is restricted by fence

VI. SOURCES OF INFORMATION Cite specific references e.g. state files, lab/analysis records.

State, EPA + FIT files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
GA 0980603696

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY <small>(Check as applicable)</small>	02 STATUS	03 DISTANCE TO SITE												
<table><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A <input type="checkbox"/></td><td>B <input checked="" type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C <input type="checkbox"/></td><td>D <input checked="" type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	NON-COMMUNITY C <input type="checkbox"/>	D <input checked="" type="checkbox"/>	<table><tr><td>ENDANGERED A <input type="checkbox"/></td><td>AFFECTED B <input type="checkbox"/></td><td>MONITORED C <input type="checkbox"/></td></tr><tr><td>D <input type="checkbox"/></td><td>E <input type="checkbox"/></td><td>F <input type="checkbox"/></td></tr></table>	ENDANGERED A <input type="checkbox"/>	AFFECTED B <input type="checkbox"/>	MONITORED C <input type="checkbox"/>	D <input type="checkbox"/>	E <input type="checkbox"/>	F <input type="checkbox"/>	A <u>1/2</u> (mi) B _____ (mi)
SURFACE	WELL													
COMMUNITY A <input type="checkbox"/>	B <input checked="" type="checkbox"/>													
NON-COMMUNITY C <input type="checkbox"/>	D <input checked="" type="checkbox"/>													
ENDANGERED A <input type="checkbox"/>	AFFECTED B <input type="checkbox"/>	MONITORED C <input type="checkbox"/>												
D <input type="checkbox"/>	E <input type="checkbox"/>	F <input type="checkbox"/>												

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

- ☒ A ONLY SOURCE FOR DRINKING ☐ B DRINKING
Other sources available
COMMERCIAL, INDUSTRIAL, IRRIGATION
No other water sources available
☐ C COMMERCIAL, INDUSTRIAL, IRRIGATION
Limited other sources available
☐ D NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER <u>160,000</u>	03 DISTANCE TO NEAREST DRINKING WATER WELL <u>0.5</u> (mi)			
04 DEPTH TO GROUNDWATER <u>10</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u>Generally S + E</u>	06 DEPTH TO AQUIFER OF CONCERN <u>200</u> (ft)	07 POTENTIAL YIELD OF AQUIFER _____ (gpd)	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

10 RECHARGE AREA

- ☐ YES COMMENTS
☐ NO

11 DISCHARGE AREA

- ☐ YES COMMENTS
☐ NO

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

- ☒ A RESERVOIR, RECREATION, DRINKING WATER SOURCE ☐ B IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C COMMERCIAL, INDUSTRIAL ☐ D NOT CURRENTLY USED

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
<u>Williamson Creek</u>	<input checked="" type="checkbox"/>	<u>0</u> (mi)
<u>Wilmington River</u>	<input type="checkbox"/>	<u>0</u> (mi)
	<input type="checkbox"/>	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN	02 DISTANCE TO NEAREST POPULATION									
<table><tr><td>ONE (1) MILE OF SITE</td><td>TWO (2) MILES OF SITE</td><td>THREE (3) MILES OF SITE</td></tr><tr><td>A <u>1459</u></td><td>B <u>17601</u></td><td>C <u>45424</u></td></tr><tr><td><small>NO. OF PERSONS</small></td><td><small>NO. OF PERSONS</small></td><td><small>NO. OF PERSONS</small></td></tr></table>	ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	A <u>1459</u>	B <u>17601</u>	C <u>45424</u>	<small>NO. OF PERSONS</small>	<small>NO. OF PERSONS</small>	<small>NO. OF PERSONS</small>	<u>0.1</u> (mi)
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE								
A <u>1459</u>	B <u>17601</u>	C <u>45424</u>								
<small>NO. OF PERSONS</small>	<small>NO. OF PERSONS</small>	<small>NO. OF PERSONS</small>								
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING									
_____	<u>0.1</u> (mi)									

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Nearly all of Thunderbolt (pop. ~2500) is within one mile and a large portion of Savannah is within 4 miles



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
GA 09ECCE03696

VI. ENVIRONMENTAL INFORMATION

03 PERMEABILITY OF UNSATURATED ZONE (cm/sec)

A. $10^{-10} - 10^{-11}$ cm/sec B. $10^{-9} - 10^{-10}$ cm/sec ☒ C. $10^{-8} - 10^{-9}$ cm/sec D. GREATER THAN 10^{-8} cm/sec

04 PERMEABILITY OF BEDROCK (cm/sec)

A. IMPERMEABLE B. RELATIVELY IMPERMEABLE C. RELATIVELY PERMEABLE D. VERY PERMEABLE
(Less than 10^{-10} cm/sec) ($10^{-10} - 10^{-9}$ cm/sec) ($10^{-9} - 10^{-8}$ cm/sec) (Greater than 10^{-8} cm/sec)

05 DEPTH TO BEDROCK

(ft)

06 DEPTH OF CONTAMINATED SOIL ZONE

A+ least 10 (ft)

07 SOIL pH

08 NET PRECIPITATION

4 (in)

09 ONE YEAR 24 HOUR RAINFALL

3.5 (in)

10 SLOPE
SITE SLOPE

%

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

%

11 FLOOD POTENTIAL

SITE IS IN YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

12 DISTANCE TO WETLANDS (530 ft minimum)

ESTUARINE

OTHER

A. 0 (mi)

B. NA (mi)

13 DISTANCE TO CRITICAL HABITAT (for endangered species)

(mi)

ENDANGERED SPECIES:

NA

14 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL/INDUSTRIAL

A. 0 (mi)

RESIDENTIAL AREAS, NATIONAL STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

B. 0.1 (mi)

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

C. (mi) D. (mi)

15 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
GA 09E0E03646

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER		INORGANIC ANALYSIS by Octa Chem, Salt Lake City, UT	
WASTE			
AIR		ORGANIC ANALYSIS by Compuchem Labs, RTP, NC	
RUNOFF			
SPILL		SAS by Environmental Science + Engineering	
SOIL	11	Gainesville, FL	12/89
VEGETATION			
OTHER Sediment	6		12/89

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input checked="" type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>Nus Corp</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>Nus Corp</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

FIT files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
GA 09808203696

II. CURRENT OWNER(S)				PARENT COMPANY (If applicable)			
01 NAME Thunderbolt Marine Inc		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 3126 River Rd		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Thunderbolt		06 STATE GA	07 ZIP CODE 31414	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (If applicable, list most recent first)			
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
GA 09800003696

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME Thunderbolt Shipbuilding & Repair		02 D+B NUMBER		10 NAME Trinity Industries		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 3126 River Rd		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.) PO Box 568887		13 SIC CODE	
05 CITY Thunderbolt		06 STATE GA	07 ZIP CODE 31414	14 CITY Dallas		15 STATE TX	16 ZIP CODE 75356
08 YEARS OF OPERATION ~2		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME Lockheed Shipbuilding		02 D+B NUMBER		10 NAME Lockheed Shipbuilding		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 3126 River Rd		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.) 2929 16 th Ave S.W.		13 SIC CODE	
05 CITY Thunderbolt		06 STATE GA	07 ZIP CODE 31414	14 CITY Seattle		15 STATE WA	16 ZIP CODE 98134
08 YEARS OF OPERATION ~1986-1988		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME Latex Construction		02 D+B NUMBER		10 NAME Same as property owner		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION ~1963-1986		09 NAME OF OWNER DURING THIS PERIOD W.E. Honey					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

EPA, State & FIT files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

GA D980803696

II. ON-SITE GENERATOR

01 NAME	02 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Give specific references, e.g., State files, sample analysis reports.)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

GA 09800303696

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NONE Documented (ND)

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☒ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE 1/89

03 AGENCY Done by PRP

45 cu yds contaminated surface soils removed

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ O. EMERGENCY Diking SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ P. CUTOFF TRENCHES, SUMP
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

ND



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
GA 09800603696

II. PAST RESPONSE ACTIVITIES (Continued)

01 <input type="checkbox"/> R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> S. CAPPING COVERING 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> T. BULK TANKAGE REPAIRED 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> V. BOTTOM SEALED 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> W. GAS CONTROL 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> X. FIRE CONTROL 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Y. LEACHATE TREATMENT 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Z. AREA EVACUATED 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 2. POPULATION RELOCATED 04 DESCRIPTION ND	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE _____	03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis reports)

FIT files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	0980803696

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION YES / NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

III. SOURCES OF INFORMATION Cite specific references, e.g., state files, sample analysis reports.

APPENDIX

I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7664-41-7	Ammonia	14. 1317-38-0	Cupric Oxide	27. 7778-50-9	Potassium Dichromate
2. 7440-36-0	Antimony	15. 7758-98-7	Cupric Sulfate	28. 1310-58-3	Potassium Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-39-1	Cuprous Oxide	29. 115-07-1	Propylene
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-9	Sodium Dichromate
5. 1327-53-3	Arsenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31. 1310-73-2	Sodium Hydroxide
6. 21109-95-5	Barium Sulfide	19. 7664-39-3	Hydrogen Fluoride	32. 7646-78-8	Stannic Chloride
7. 7726-95-6	Bromine	20. 1335-25-7	Lead Oxide	33. 7772-99-8	Stannous Chloride
8. 106-99-0	Butadiene	21. 7439-97-6	Mercury	34. 7664-93-9	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35. 108-88-3	Toluene
10. 7782-50-5	Chlorine	23. 91-20-3	Napthalene	36. 1330-20-7	Xylene
11. 12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7646-85-7	Zinc Chloride
12. 7440-47-3	Chromium	25. 7697-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
13. 7440-48-4	Cobalt	26. 7723-14-0	Phosphorus		

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde	47. 1303-33-9	Arsenic Trisulfide	92. 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 542-62-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoarsenite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94. 7447-39-4	Cupric Chloride
4. 75-86-5	Acetone Cyanohydrin	50. 65-85-0	Benzoic Acid	95. 3251-23-8	Cupric Nitrate
5. 506-96-7	Acetyl Bromide	51. 100-47-0	Benzonitrile	96. 5893-66-3	Cupric Oxalate
6. 75-36-5	Acetyl Chloride	52. 98-88-4	Benzoyl Chloride	97. 7758-98-7	Cupric Sulfate
7. 107-02-8	Acrolein	53. 100-44-7	Benzyl Chloride	98. 10380-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9. 124-04-9	Adipic Acid	55. 7787-47-5	Beryllium Chloride	100. 506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin	56. 7787-49-7	Beryllium Fluoride	101. 110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate	57. 13597-99-4	Beryllium Nitrate	102. 94-75-7	2,4-D Acid
12. 107-18-6	Allyl Alcohol	58. 123-86-4	Butyl Acetate	103. 94-11-1	2,4-D Esters
13. 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Phthalate	104. 50-29-3	DDT
14. 7664-41-7	Ammonia	60. 109-73-9	Butylamine	105. 333-41-5	Diazinon
15. 631-61-8	Ammonium Acetate	61. 107-92-6	Butyric Acid	106. 1918-00-9	Dicamba
16. 1863-63-4	Ammonium Benzoate	62. 543-90-8	Cadmium Acetate	107. 1194-65-6	Dichlobenil
17. 1066-33-7	Ammonium Bicarbonate	63. 7789-42-6	Cadmium Bromide	108. 117-80-6	Dichlone
18. 7789-09-5	Ammonium Bichromate	64. 10108-64-2	Cadmium Chloride	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 1341-49-7	Ammonium Bifluoride	65. 7778-44-1	Calcium Arsenate	110. 266-38-19-7	Dichloropropane (all isomers)
20. 10192-30-0	Ammonium Bisulfite	66. 52740-16-6	Calcium Arsenite	111. 26952-23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbamate	67. 75-20-7	Calcium Carbide	112. 8003-19-8	Dichloropropene- Dichloropropene Mixture
22. 12125-02-9	Ammonium Chloride	68. 13765-19-0	Calcium Chromate	113. 75-99-0	2,2-Dichloropropionic Acid
23. 7788-98-9	Ammonium Chromate	69. 592-01-8	Calcium Cyanide	114. 62-73-7	Dichlorvos
24. 3012-65-5	Ammonium Citrate, Dibasic	70. 26264-06-2	Calcium Dodecylbenzene Sulfonate	115. 60-57-1	Dieldrin
25. 13826-83-0	Ammonium Fluoborate	71. 7778-54-3	Calcium Hypochlorite	116. 109-89-7	Diethylamine
26. 12125-01-8	Ammonium Fluoride	72. 133-06-2	Captan	117. 124-40-3	Dimethylamine
27. 1336-21-6	Ammonium Hydroxide	73. 63-25-2	Carbaryl	118. 25154-54-5	Dinitrobenzene (all isomers)
28. 6009-70-7	Ammonium Oxalate	74. 1563-66-2	Carbofuran	119. 51-28-5	Dinitrophenol
29. 16919-19-0	Ammonium Silicofluoride	75. 75-15-0	Carbon Disulfide	120. 25321-14-6	Dinitrotoluene (all isomers)
30. 7773-06-0	Ammonium Sulfamate	76. 56-23-5	Carbon Tetrachloride	121. 85-00-7	Diquat
31. 12135-76-1	Ammonium Sulfide	77. 57-74-9	Chlordane	122. 298-04-4	Disulfoton
32. 10196-04-0	Ammonium Sulfite	78. 7782-50-5	Chlorine	123. 330-54-1	Diuron
33. 14307-43-8	Ammonium Tartrate	79. 108-90-7	Chlorobenzene	124. 27176-87-0	Dodecylbenzenesulfonic Acid
34. 1762-95-4	Ammonium Thiocyanate	80. 67-66-3	Chloroform	125. 115-29-7	Endosulfan (all isomers)
35. 7783-18-8	Ammonium Thiosulfate	81. 7790-94-5	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
36. 628-63-7	Amyl Acetate	82. 2921-88-2	Chlorpyrifos	127. 106-89-8	Epichlorohydrin
37. 62-53-3	Aniline	83. 1066-30-4	Chromic Acetate	128. 563-12-2	Ethion
38. 7647-18-9	Antimony Pentachloride	84. 7738-94-5	Chromic Acid	129. 100-41-4	Ethyl Benzene
39. 7789-61-9	Antimony Tribromide	85. 10101-53-8	Chromic Sulfate	130. 107-15-3	Ethylenediamine
40. 10025-91-9	Antimony Trichloride	86. 10049-05-5	Chromous Chloride	131. 106-93-4	Ethylene Dibromide
41. 7783-56-4	Antimony Trifluoride	87. 544-18-3	Cobaltous Formate	132. 107-06-2	Ethylene Dichloride
42. 1309-64-4	Antimony Trioxide	88. 14017-41-5	Cobaltous Sulfamate	133. 60-00-4	EDTA
43. 1303-32-8	Arsenic Disulfide	89. 56-72-4	Coumaphos	134. 1185-57-5	Ferric Ammonium Citrate
44. 1303-28-2	Arsenic Pentoxide	90. 1319-77-3	Cresol	135. 2944-67-4	Ferric Ammonium Oxalate
45. 7784-34-1	Arsenic Trichloride	91. 4170-30-3	Crotonaldehyde	136. 7705-08-0	Ferric Chloride
46. 1327-53-3	Arsenic Trioxide				

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
137. 7783-50-8	Ferric Fluoride	192. 74-89-5	Monomethylamine	249. 7632-00-0	Sodium Nitrate
138. 10421-48-4	Ferric Nitrate	193. 300-76-5	Naled	250. 7558-79-4	Sodium Phosphate, Dibasic
139. 10028-22-5	Ferric Sulfate	194. 91-20-3	Naphthalene	251. 7601-54-9	Sodium Phosphate, Tribasic
140. 10045-89-3	Ferrous Ammonium Sulfate	195. 1338-24-5	Naphthenic Acid	252. 10102-18-8	Sodium Selenite
141. 7758-94-3	Ferrous Chloride	196. 7440-02-0	Nickel	253. 7789-06-2	Strontium Chromate
142. 7720-78-7	Ferrous Sulfate	197. 15699-18-0	Nickel Ammonium Sulfate	254. 57-24-9	Strychnine and Salts
143. 206-44-0	Fluoranthene	198. 37211-05-5	Nickel Chloride	255. 100-420-5	Styrene
144. 50-00-0	Formaldehyde	199. 12054-48-7	Nickel Hydroxide	256. 12771-08-3	Sulfur Monochloride
145. 64-18-6	Formic Acid	200. 14216-75-2	Nickel Nitrate	257. 7664-93-9	Sulfuric Acid
146. 110-17-8	Fumaric Acid	201. 7786-81-4	Nickel Sulfate	258. 93-76-5	2,4,5-T Acid
147. 98-01-1	Furfural	202. 7697-37-2	Nitric Acid	259. 2008-46-0	2,4,5-T Amines
148. 36-50-0	Guthion	203. 98-95-3	Nitrobenzene	260. 93-79-8	2,4,5-T Esters
149. 76-44-8	Heptachlor	204. 10102-44-0	Nitrogen Dioxide	261. 13560-99-1	2,4,5-T Salts
150. 118-74-1	Hexachlorobenzene	205. 25154-55-6	Nitrophenol (all isomers)	262. 93-72-1	2,4,5-TP Acid
151. 87-68-3	Hexachlorobutadiene	206. 1321-12-6	Nitrotoluene	263. 32534-95-5	2,4,5-TP Acid Esters
152. 67-72-1	Hexachloroethane	207. 30525-89-4	Paraformaldehyde	264. 72-54-8	TDE
153. 70-30-4	Hexachlorophene	208. 56-38-2	Parathion	265. 95-94-3	Tetrachlorobenzene
154. 77-47-4	Hexachlorocyclopentadiene	209. 608-93-5	Pentachlorobenzene	266. 127-18-4	Tetrachloroethane
155. 7647-01-0	Hydrochloric Acid (Hydrogen Chloride)	210. 87-86-5	Pentachlorophenol	267. 78-00-2	Tetraethyl Lead
156. 7664-39-3	Hydrofluoric Acid (Hydrogen Fluoride)	211. 85-01-8	Phenanthrene	268. 107-49-3	Tetraethyl Pyrophosphate
157. 74-90-8	Hydrogen Cyanide	212. 108-95-2	Phenol	269. 7446-18-6	Thallium (I) Sulfate
158. 7783-06-4	Hydrogen Sulfide	213. 75-44-5	Phosgene	270. 108-88-3	Toluene
159. 78-79-5	Isoprene	214. 7664-38-2	Phosphoric Acid	271. 8001-35-2	Toxaphene
160. 42504-46-1	Isopropanolamine	215. 7723-14-0	Phosphorus	272. 12002-48-1	Trichlorobenzene (all isomers)
161. 115-32-2	Dodecylbenzenesulfonate	216. 10025-87-3	Phosphorus Oxichloride	273. 52-68-6	Trichlorfon
162. 143-50-0	Kelthane	217. 1314-80-3	Phosphorus Pentasulfide	274. 25323-89-1	Trichloroethane (all isomers)
163. 301-04-2	Lead Acetate	218. 7719-12-2	Phosphorus Trichloride	275. 79-01-6	Trichloroethylene
164. 3687-31-8	Lead Arsenate	219. 7784-41-0	Potassium Arsenate	276. 25167-82-2	Trichlorophenol (all isomers)
165. 7758-95-4	Lead Chloride	220. 10124-50-2	Potassium Arsenite	277. 27323-41-7	Triethanolamine
166. 13814-96-5	Lead Fluoborate	221. 7778-50-9	Potassium Bichromate		Dodecylbenzenesulfonate
167. 7783-46-2	Lead Fluoride	222. 7789-00-6	Potassium Chromate	278. 121-44-8	Triethylamine
168. 10101-63-0	Lead Iodide	223. 7722-64-7	Potassium Permanganate	279. 75-50-3	Trimethylamine
169. 18256-98-9	Lead Nitrate	224. 2312-35-8	Propargite	280. 541-09-3	Uranyl Acetate
170. 7428-48-0	Lead Stearate	225. 79-09-4	Propionic Acid	281. 10102-06-4	Uranyl Nitrate
171. 15739-80-7	Lead Sulfate	226. 123-62-6	Propionic Anhydride	282. 1314-62-1	Vanadium Pentoxide
172. 1314-87-0	Lead Sulfide	227. 1336-36-3	Polychlorinated Biphenyls	283. 27774-13-6	Vanadyl Sulfate
173. 592-87-0	Lead Thiocyanate	228. 151-50-8	Potassium Cyanide	284. 108-05-4	Vinyl Acetate
174. 58-89-9	Lindane	229. 1310-58-3	Potassium Hydroxide	285. 75-35-4	Vinylidene Chloride
175. 14307-35-8	Lithium Chromate	230. 75-56-9	Propylene Oxide	286. 1300-71-6	Xylenol
176. 121-75-5	Malthion	231. 121-29-9	Pyrethrins	287. 557-34-6	Zinc Acetate
177. 110-16-7	Maleic Acid	232. 91-22-5	Quinoline	288. 52628-25-8	Zinc Ammonium Chloride
178. 108-31-6	Maleic Anhydride	233. 108-46-3	Resorcinol	289. 1332-07-6	Zinc Borate
179. 2032-65-7	Mercaptodimethur	234. 7446-08-4	Selenium Oxide	290. 7699-45-8	Zinc Bromide
180. 592-04-1	Mercuric Cyanide	235. 7761-88-8	Silver Nitrate	291. 3486-35-9	Zinc Carbonate
181. 10045-94-0	Mercuric Nitrate	236. 7631-89-2	Sodium Arsenate	292. 7646-85-7	Zinc Chloride
182. 7783-35-9	Mercuric Sulfate	237. 7784-46-5	Sodium Arsenite	293. 557-21-1	Zinc Cyanide
183. 592-85-8	Mercuric Thiocyanate	238. 10588-01-9	Sodium Bichromate	294. 7783-49-3	Zinc Fluoride
184. 10415-75-5	Mercurous Nitrate	239. 1333-83-1	Sodium Bifluoride	295. 557-41-5	Zinc Formate
185. 72-43-5	Methoxychlor	240. 7631-90-5	Sodium Bisulfite	296. 7779-86-4	Zinc Hydrosulfite
186. 74-93-1	Methyl Mercaptan	241. 7775-11-3	Sodium Chromate	297. 7779-88-6	Zinc Nitrate
187. 80-62-6	Methyl Methacrylate	242. 143-33-9	Sodium Cyanide	298. 127-82-2	Zinc Phenolsulfonate
188. 298-00-0	Methyl Parathion	243. 25155-30-0	Sodium Dodecylbenzene Sulfonate	299. 1314-84-7	Zinc Phosphide
189. 7786-34-7	Mevinphos	244. 7681-49-4	Sodium Fluoride	300. 16871-71-9	Zinc Silicofluoride
190. 315-18-4	Mexacarbate	245. 16721-80-5	Sodium Hydrosulfide	301. 7733-02-0	Zinc Sulfate
191. 75-04-7	Monoethylamine	246. 1310-73-2	Sodium Hydroxide	302. 13746-89-9	Zirconium Nitrate
		247. 7681-52-9	Sodium Hypochlorite	303. 16923-95-8	Zirconium Potassium Fluoride
		248. 124-41-4	Sodium Methylate	304. 14644-61-2	Zirconium Sulfate
				305. 10026-11-6	Zirconium Tetrachloride